

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010220\  
 Data File : VV014248.D  
 Acq On : 02 Jan 2020 14:41  
 Operator : SY/MD  
 Sample : VSTD00531  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jan 02 17:04:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR010220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Jan 02 17:01:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 888094   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 818564   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 378764   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |      |      |
|--------------------------------|-------|-----|---------|-------|------|------|
| 4) Vinyl Chloride-d3           | 1.32  | 65  | 299979  | 6.52  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.59  | 69  | 235725  | 6.27  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.13  | 63  | 460272  | 5.80  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 3.96  | 46  | 753653  | 65.72 | ug/L | 0.00 |
| 24) Chloroform-d               | 4.40  | 84  | 590793  | 5.43  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.08  | 65  | 297797  | 5.63  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.10  | 84  | 1217235 | 5.30  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.12  | 67  | 373060  | 5.34  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.36  | 98  | 1093313 | 5.13  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 7.66  | 79  | 164843  | 5.25  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.13  | 63  | 705624  | 58.21 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26 | 84  | 265943  | 5.32  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 11.67 | 152 | 347035  | 5.04  | ug/L | 0.00 |

## Target Compounds

|                                |      |     |         |             | Qvalue |
|--------------------------------|------|-----|---------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 346946  | 5.089 ug/L  | 100    |
| 3) Chloromethane               | 1.26 | 50  | 333312  | 5.291 ug/L  | 100    |
| 5) Vinyl chloride              | 1.32 | 62  | 318665  | 5.327 ug/L  | 100    |
| 6) Bromomethane                | 1.54 | 94  | 175661  | 6.094 ug/L  | 100    |
| 8) Chloroethane                | 1.60 | 64  | 173267  | 5.415 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 382009  | 5.052 ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 206042  | 5.030 ug/L  | 100    |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 203975  | 5.077 ug/L  | 100    |
| 13) Acetone                    | 2.23 | 43  | 456092  | 64.690 ug/L | 100    |
| 14) Carbon disulfide           | 2.32 | 76  | 888838  | 5.110 ug/L  | 100    |
| 15) Methyl Acetate             | 2.48 | 43  | 123805  | 5.554 ug/L  | 100    |
| 16) Methylene chloride         | 2.54 | 84  | 301799  | 4.548 ug/L  | 100    |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 750438  | 5.062 ug/L  | 100    |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96  | 304628  | 4.937 ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 586707  | 5.083 ug/L  | 100    |
| 21) 2-Butanone                 | 4.04 | 43  | 798767  | 63.107 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 332673  | 4.956 ug/L  | 100    |
| 23) Bromochloromethane         | 4.30 | 128 | 125829  | 4.826 ug/L  | 100    |
| 25) Chloroform                 | 4.42 | 83  | 560628  | 4.874 ug/L  | 100    |
| 27) 1,2-Dichloroethane         | 5.18 | 62  | 340386  | 5.172 ug/L  | 100    |
| 29) 1,1,1-Trichloroethane      | 4.66 | 97  | 488081  | 4.901 ug/L  | 100    |
| 30) Cyclohexane                | 4.72 | 56  | 560397  | 5.091 ug/L  | 100    |
| 31) Carbon tetrachloride       | 4.87 | 117 | 421203  | 4.944 ug/L  | 100    |
| 33) Benzene                    | 5.14 | 78  | 1264420 | 4.971 ug/L  | 100    |
| 34) Trichloroethene            | 5.96 | 95  | 321611  | 4.768 ug/L  | 100    |
| 35) Methylcyclohexane          | 6.17 | 83  | 555365  | 4.889 ug/L  | 100    |
| 37) 1,2-Dichloropropane        | 6.22 | 63  | 313958  | 5.075 ug/L  | 100    |
| 38) Bromodichloromethane       | 6.55 | 83  | 408655  | 4.950 ug/L  | 100    |
| 39) cis-1,3-Dichloropropene    | 7.07 | 75  | 516768  | 5.078 ug/L  | 100    |
| 40) 4-Methyl-2-pentanone       | 7.27 | 43  | 2012444 | 51.526 ug/L | 100    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010220\  
 Data File : VV014248.D  
 Acq On : 02 Jan 2020 14:41  
 Operator : SY/MD  
 Sample : VSTD00531  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

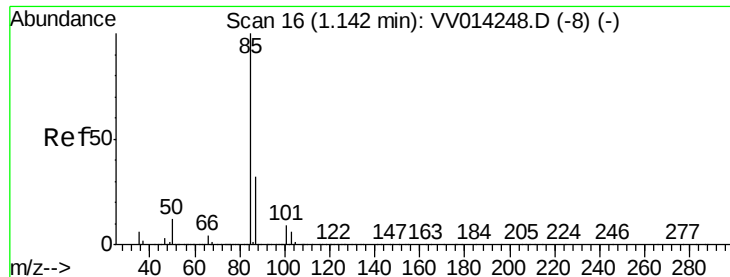
Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jan 02 17:04:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR010220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Jan 02 17:01:08 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 7.43  | 91   | 1325715  | 4.764  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 7.69  | 75   | 405856   | 5.077  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 7.88  | 97   | 201994   | 4.811  | ug/L  | 100      |
| 47) Tetrachloroethene          | 8.02  | 164  | 221566   | 4.703  | ug/L  | 100      |
| 48) 2-Hexanone                 | 8.18  | 43   | 1429858  | 52.911 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.29  | 129  | 251174   | 4.705  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 8.39  | 107  | 198250   | 4.887  | ug/L  | 100      |
| 51) Chlorobenzene              | 8.92  | 112  | 811835   | 4.730  | ug/L  | 100      |
| 52) Ethylbenzene               | 9.05  | 91   | 1498078  | 4.844  | ug/L  | 100      |
| 53) m,p-xylene                 | 9.18  | 106  | 553625   | 4.778  | ug/L  | 100      |
| 54) o-xylene                   | 9.58  | 106  | 539737   | 4.784  | ug/L  | 100      |
| 55) Styrene                    | 9.60  | 104  | 912699   | 4.804  | ug/L  | 100      |
| 56) Isopropylbenzene           | 9.97  | 105  | 1434160  | 4.829  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.28 | 83   | 253696   | 4.945  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 10.31 | 75   | 187947   | 4.937  | ug/L  | 100      |
| 61) Bromoform                  | 9.77  | 173  | 130726   | 4.738  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.22 | 146  | 595266   | 4.764  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 11.31 | 146  | 594946   | 4.767  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 11.68 | 146  | 535425   | 4.693  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75   | 47589    | 4.947  | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 12.69 | 180  | 431236   | 4.738  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.30 | 180  | 378712   | 4.739  | ug/L  | 100      |
| 69) Naphthalene                | 13.54 | 128  | 772112   | 5.186  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.79 | 180  | 335540   | 4.802  | ug/L  | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed





#2

Dichlorodifluoromethane

Concen: 5.089 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

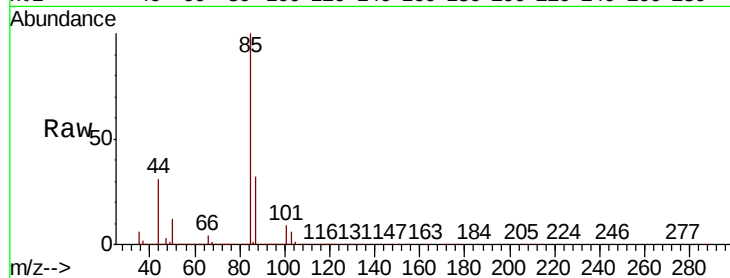
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 85 Resp: 346946

Ion Ratio Lower Upper

85 100

87 32.2 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VV014248.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014248.D (-8) (-)

1.14

400000

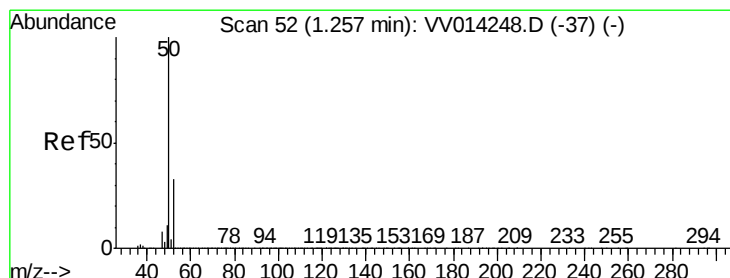
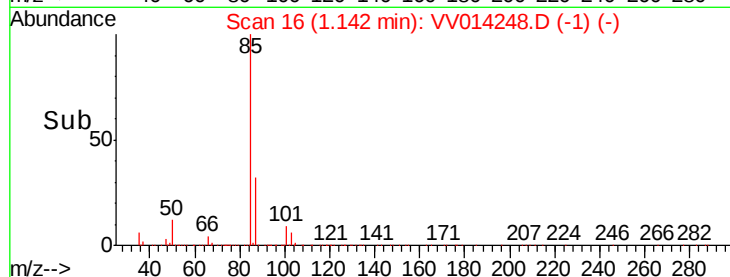
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 5.291 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014248.D

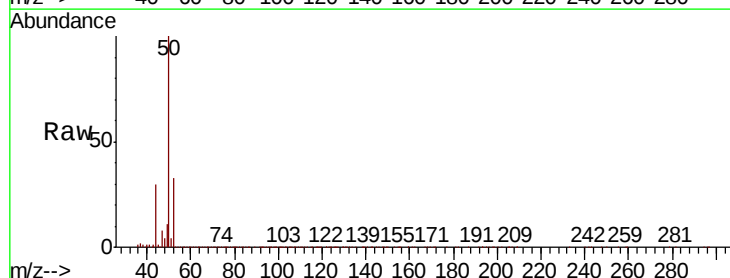
Acq: 02 Jan 2020 14:41

Tgt Ion: 50 Resp: 333312

Ion Ratio Lower Upper

50 100

52 33.4 23.4 43.4



Abundance Ion 50.05 (49.75 to 50.75): VV014248.D (-37) (-)

Ion 52.05 (51.75 to 52.75): VV014248.D (-37) (-)

1.26

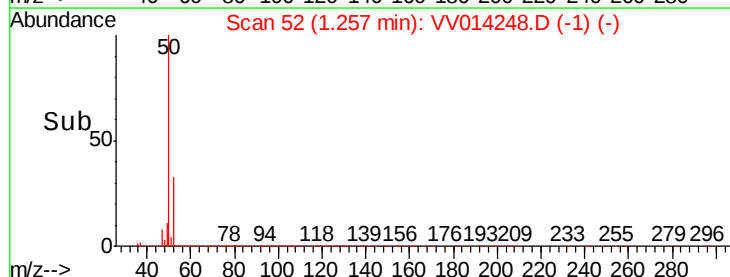
300000

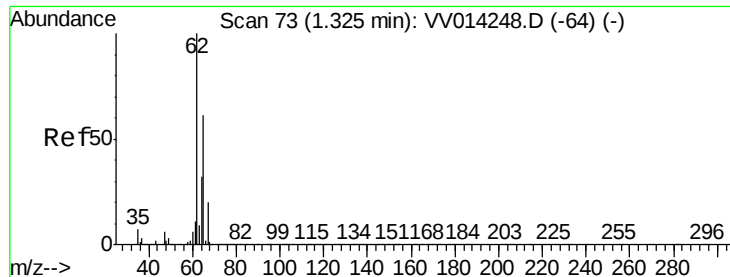
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 5.327 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

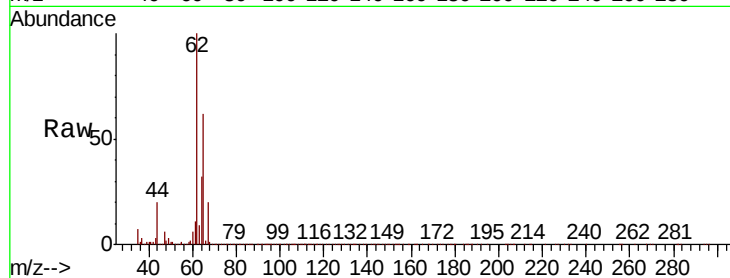
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 62 Resp: 318665

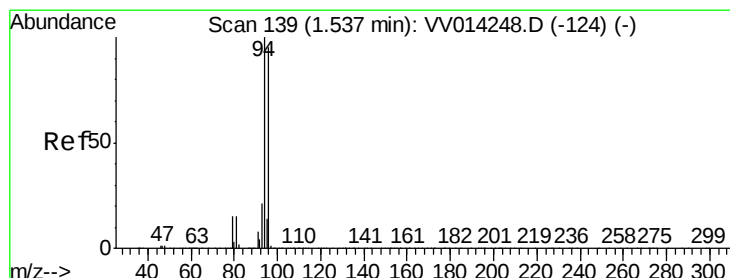
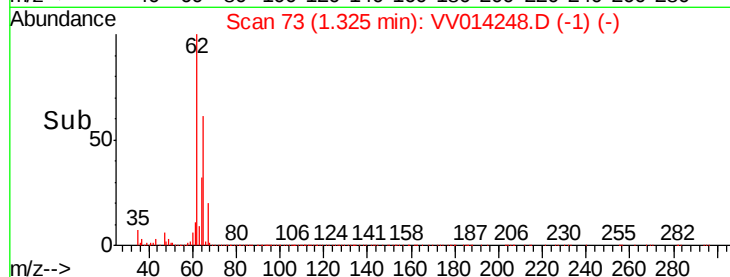
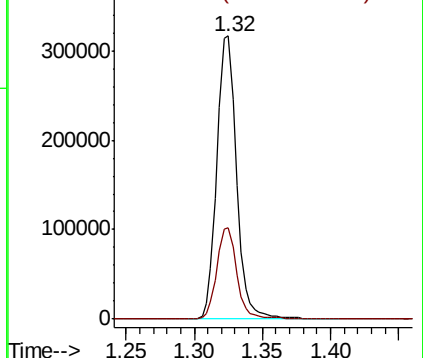
Ion Ratio Lower Upper

62 100

64 32.4 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0  
Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 6.094 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014248.D

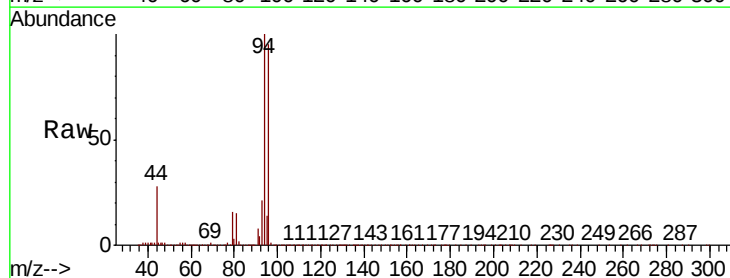
Acq: 02 Jan 2020 14:41

Tgt Ion: 94 Resp: 175661

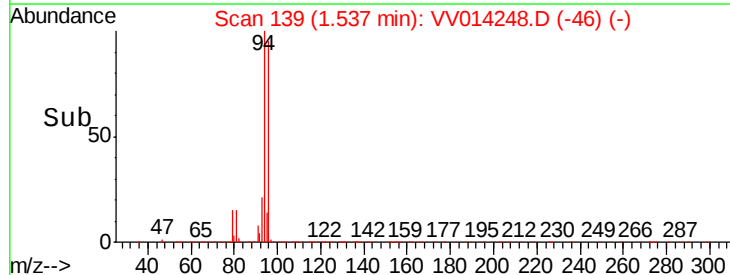
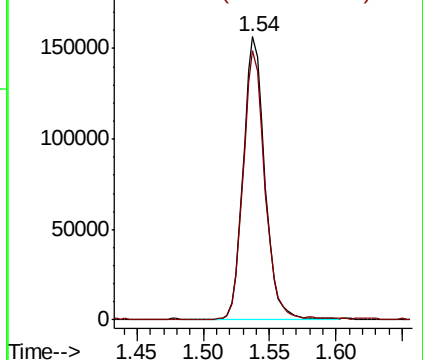
Ion Ratio Lower Upper

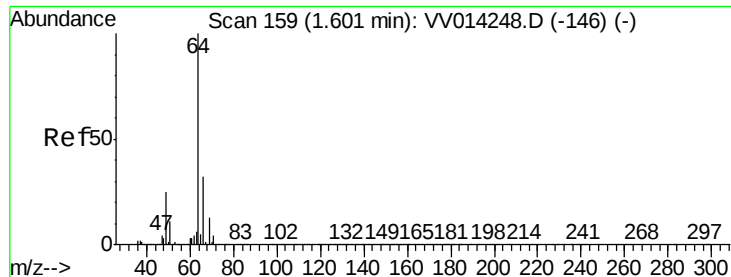
94 100

96 95.1 66.6 123.6



Abundance Ion 94.00 (93.70 to 94.70): VV0  
Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 5.415 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

Instrument :

MSVOA\_V

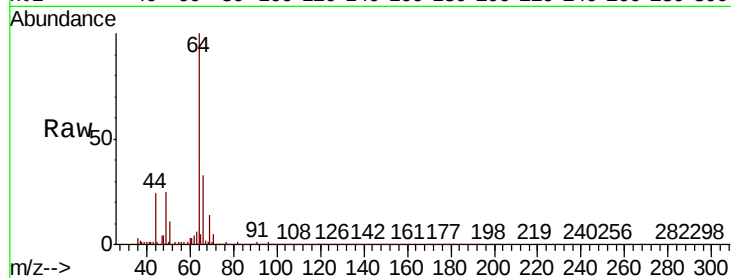
ClientSampleId :

Tot Ion: 64 Resp: 173267

Ion Ratio Lower Upper

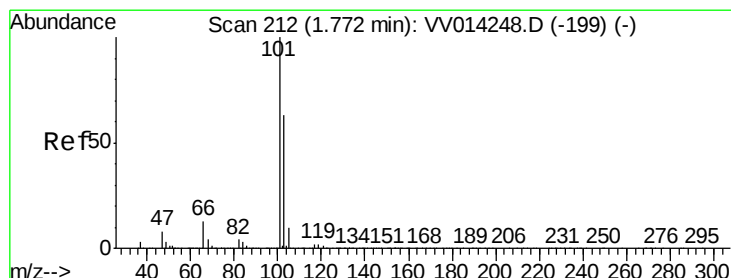
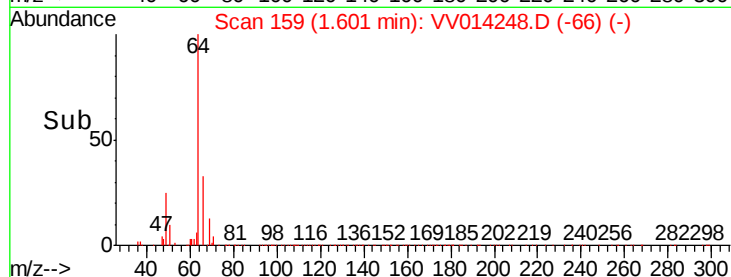
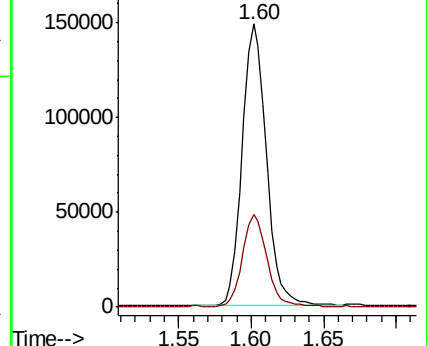
64 100

66 32.8 23.0 42.6



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0



#9

Trichlorofluoromethane

Concen: 5.052 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014248.D

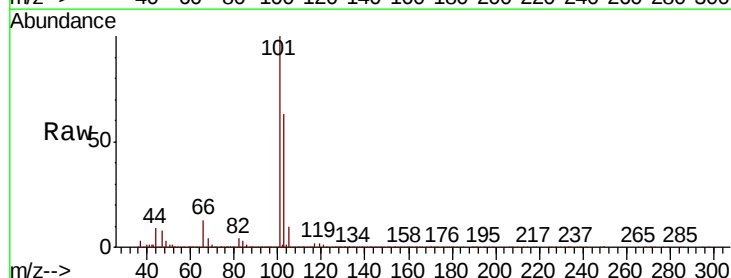
Acq: 02 Jan 2020 14:41

Tgt Ion: 101 Resp: 382009

Ion Ratio Lower Upper

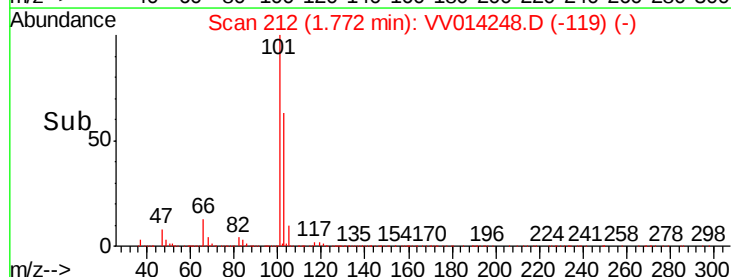
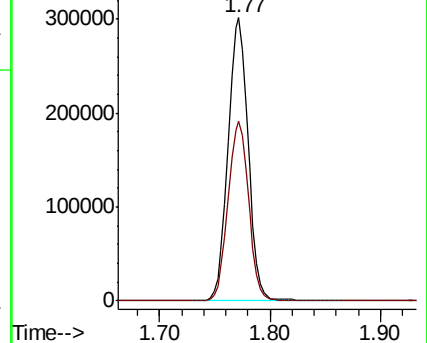
101 100

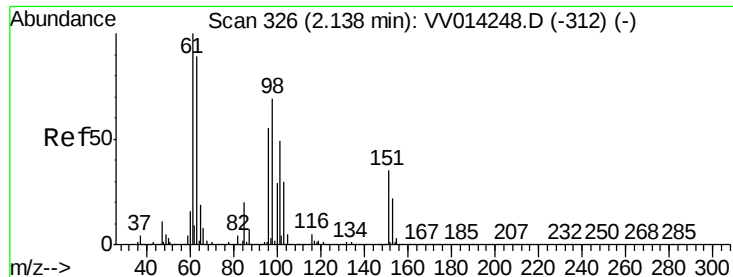
103 64.7 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.030 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

Instrument :

MSVOA\_V

ClientSampleId :

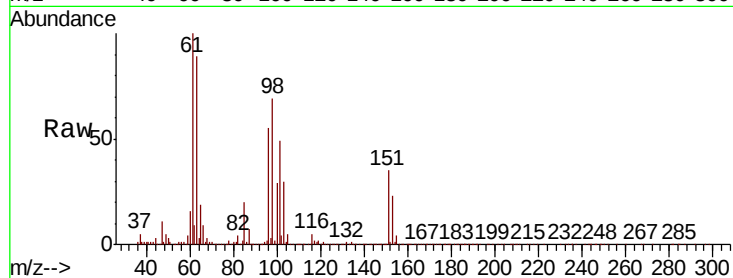
Tot Ion:101 Resp: 206042

Ion Ratio Lower Upper

101 100

85 42.5 34.0 51.0

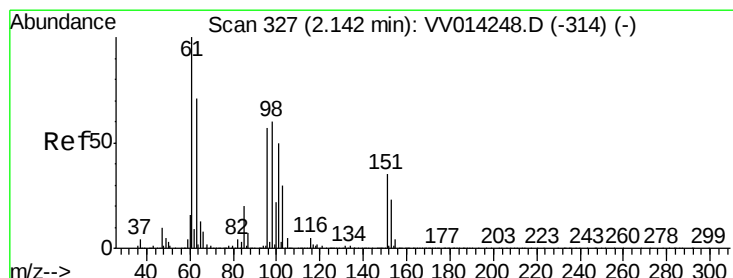
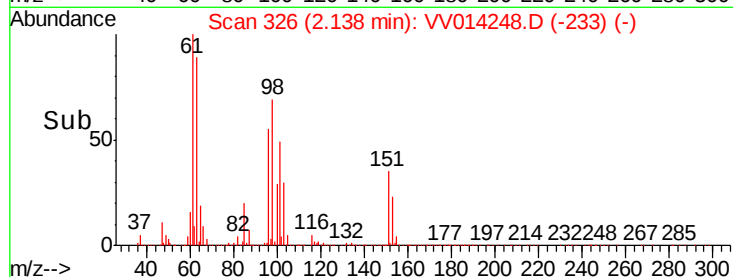
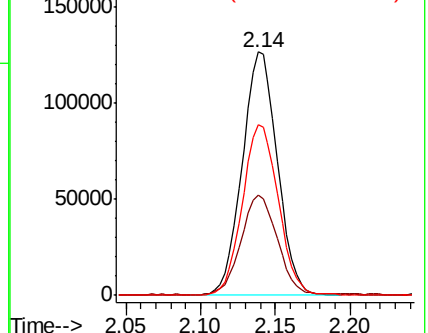
151 72.4 57.9 86.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.077 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

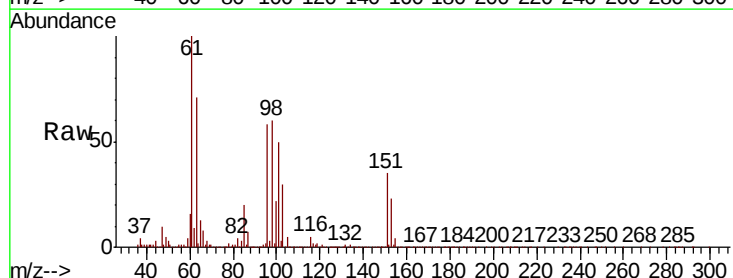
Tgt Ion: 96 Resp: 203975

Ion Ratio Lower Upper

96 100

61 173.9 121.7 226.1

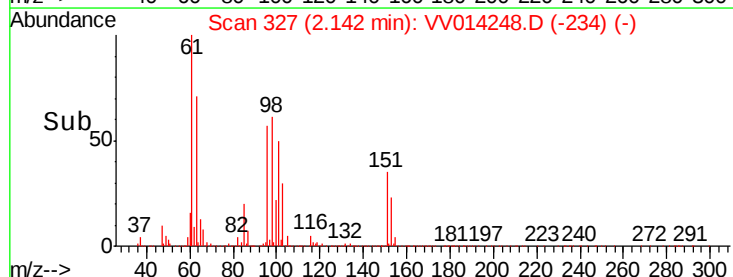
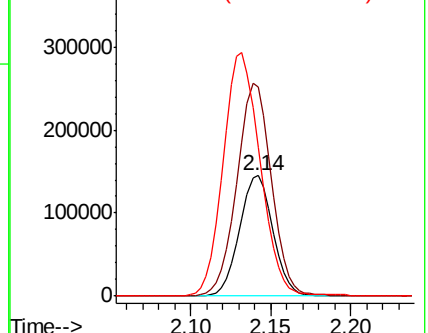
63 124.1 86.9 161.3

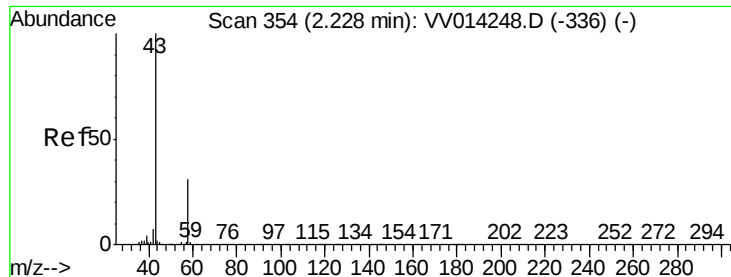


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 64.690 ug/L

RT: 2.23 min Scan# 354

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

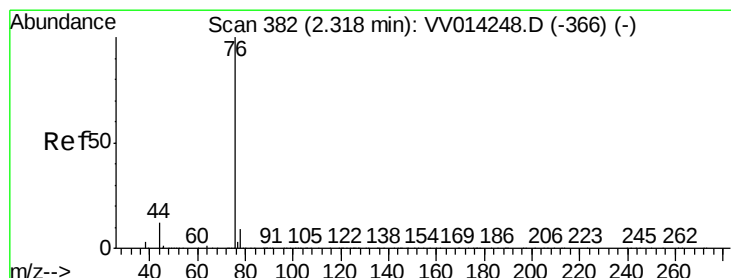
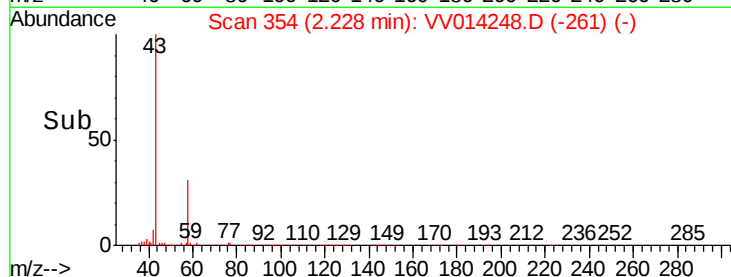
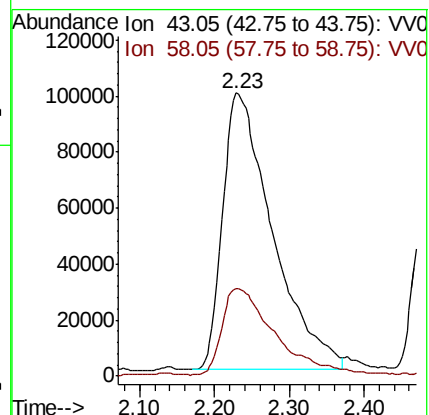
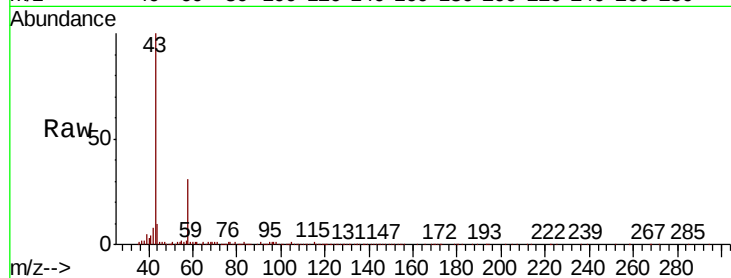
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 456092

Ion Ratio Lower Upper

43 100

58 33.2 0.0 66.4



#14

Carbon disulfide

Concen: 5.110 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV014248.D

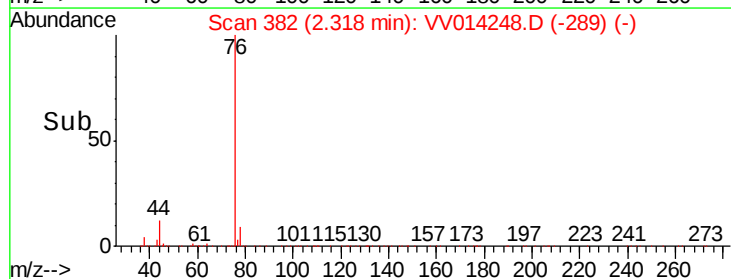
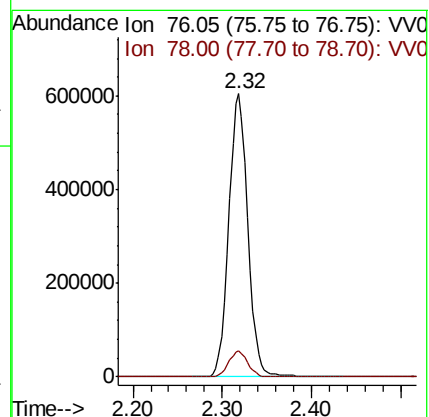
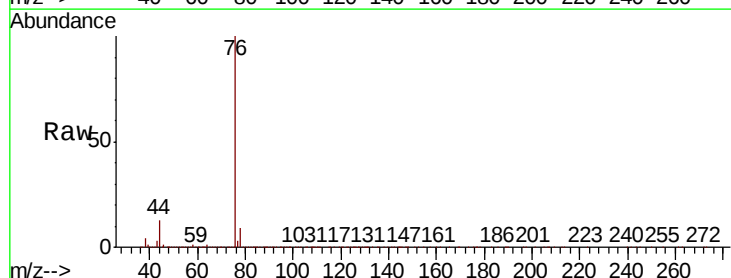
Acq: 02 Jan 2020 14:41

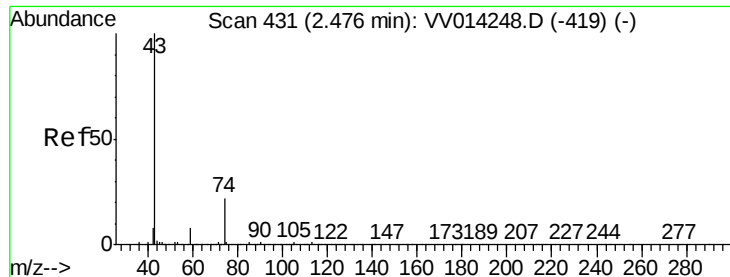
Tgt Ion: 76 Resp: 888838

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





#15

Methyl Acetate

Concen: 5.554 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

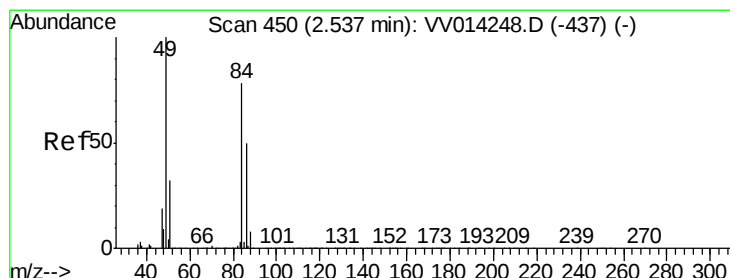
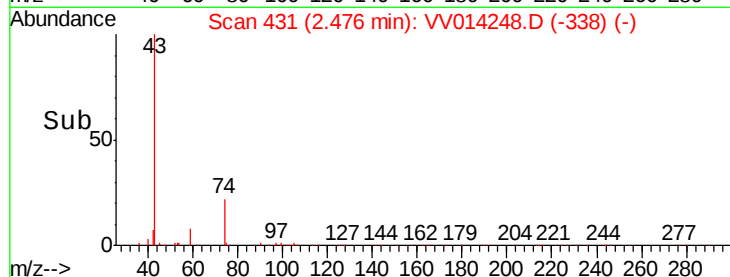
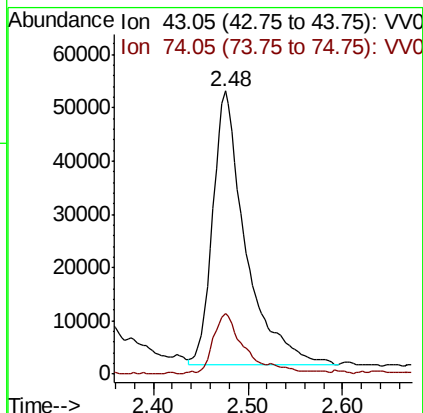
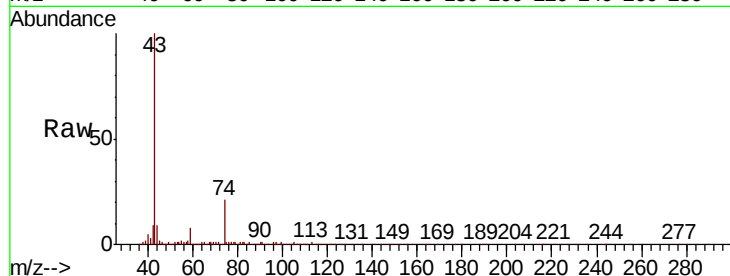
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 43 Resp: 123805

Ion Ratio Lower Upper

43 100

74 21.4 17.1 25.7



#16

Methylene chloride

Concen: 4.548 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

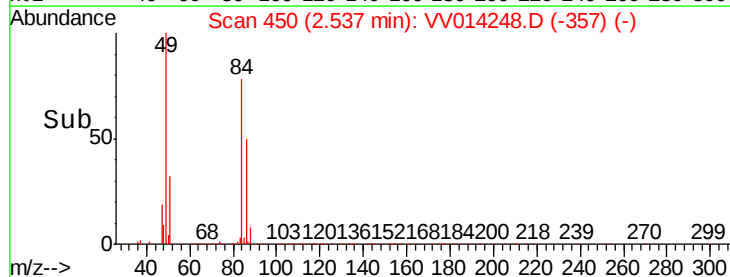
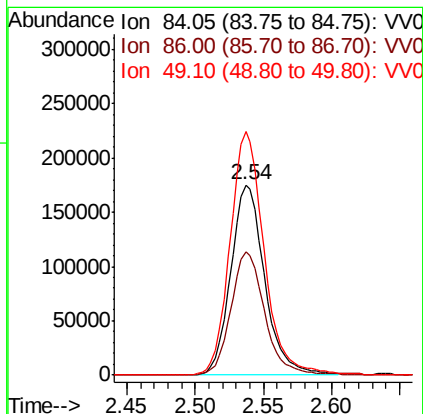
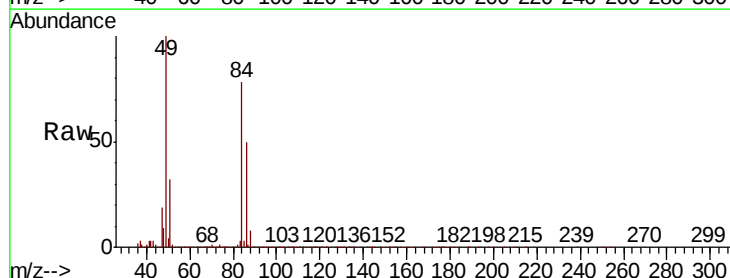
Tgt Ion: 84 Resp: 301799

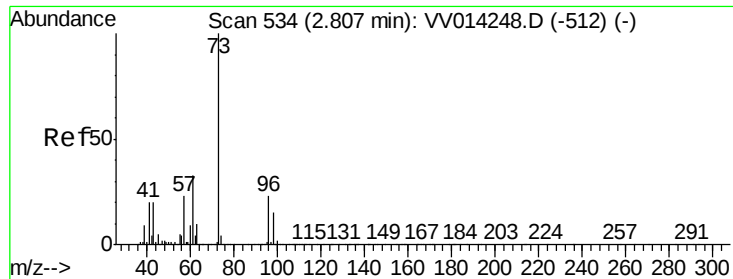
Ion Ratio Lower Upper

84 100

86 64.6 45.2 84.0

49 128.1 89.7 166.5

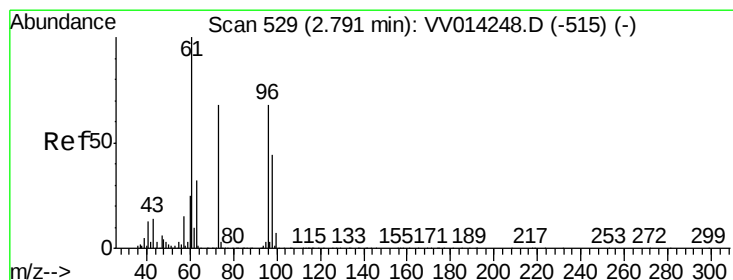
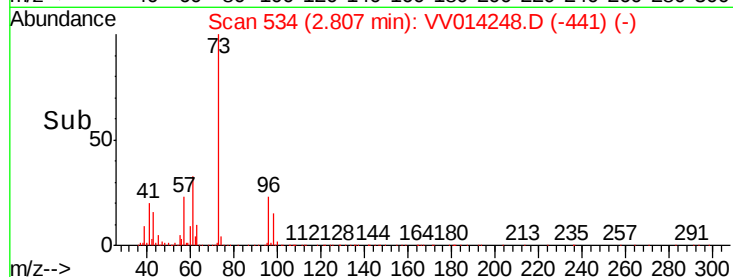
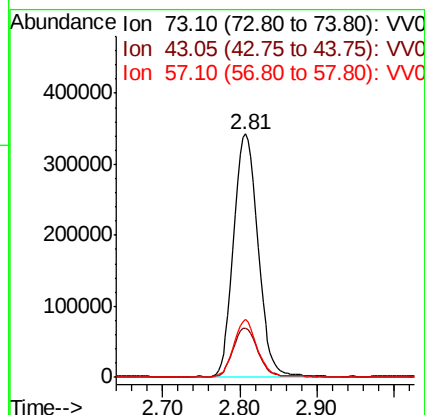
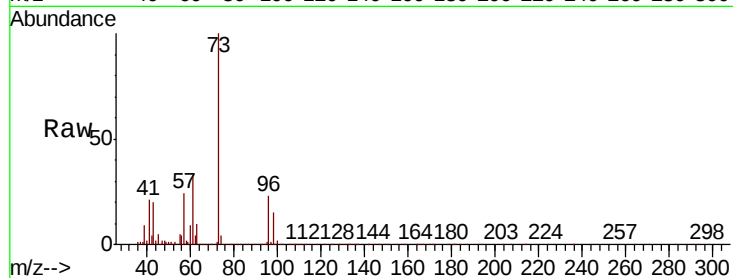




#17  
Methvl tert-butvl Ether  
Concen: 5.062 ug/L  
RT: 2.81 min Scan# 534  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

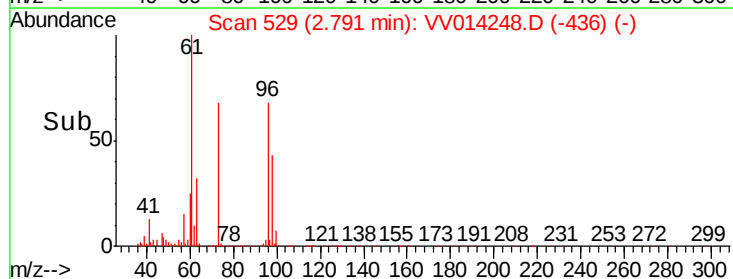
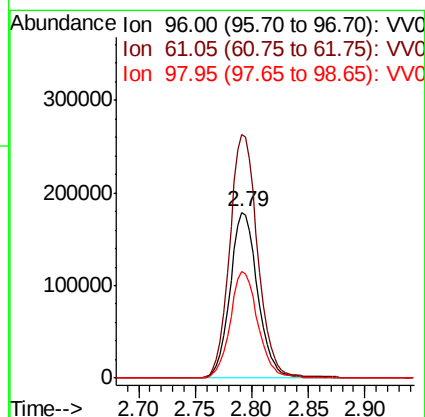
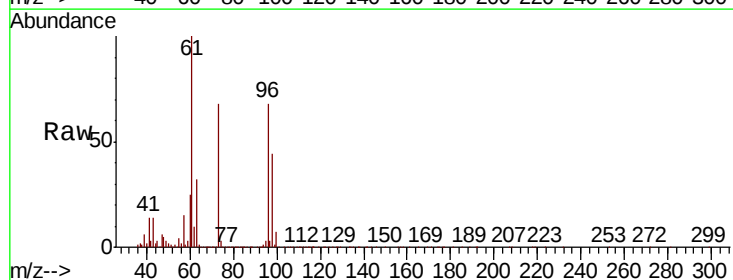
Instrument :  
MSVOA\_V  
ClientSampleId :

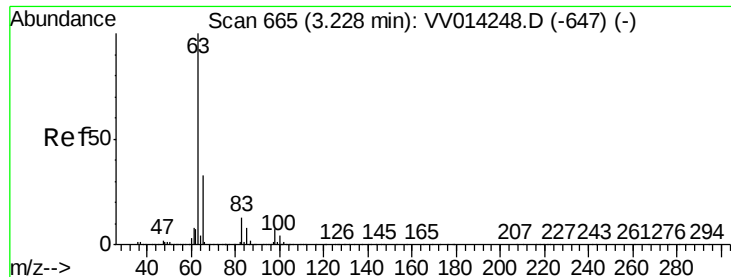
Tot Ion: 73 Resp: 750438  
Ion Ratio Lower Upper  
73 100  
43 19.7 15.8 23.6  
57 22.1 17.7 26.5



#18  
trans-1,2-Dichloroethene  
Concen: 4.937 ug/L  
RT: 2.79 min Scan# 529  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

Tgt Ion: 96 Resp: 304628  
Ion Ratio Lower Upper  
96 100  
61 146.7 102.7 190.7  
98 63.9 44.7 83.1

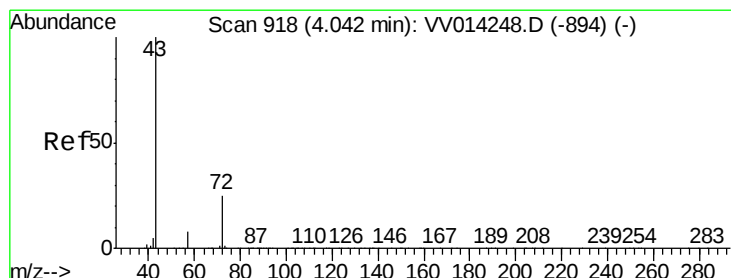
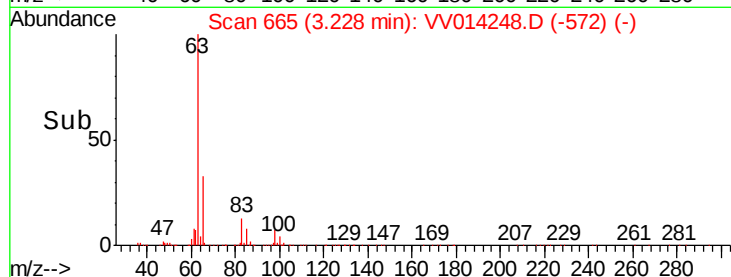
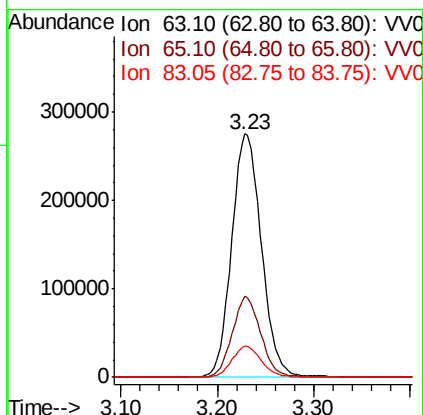
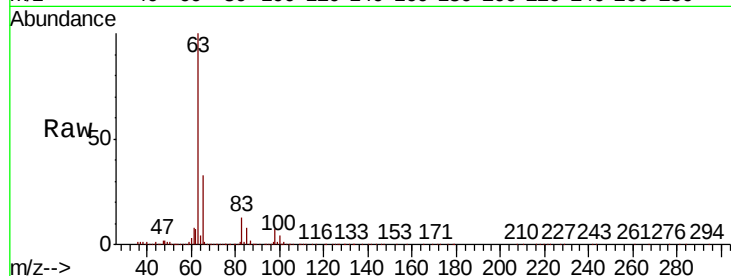




#19  
 1,1-Dichloroethane  
 Concen: 5.083 ug/L  
 RT: 3.23 min Scan# 665  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

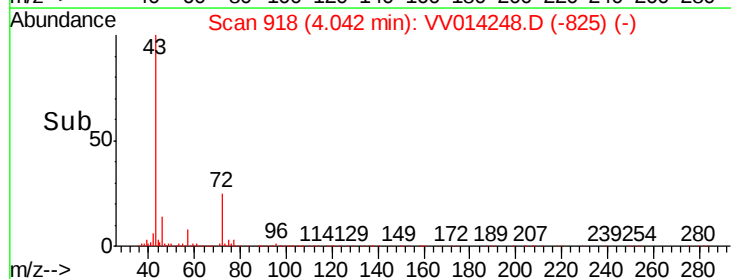
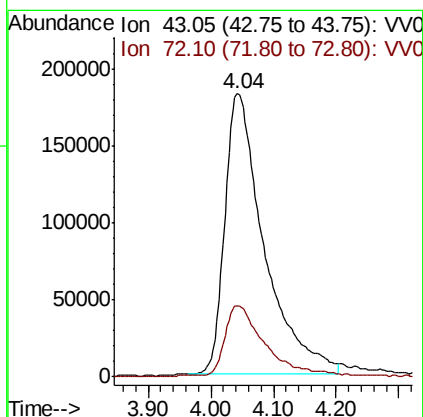
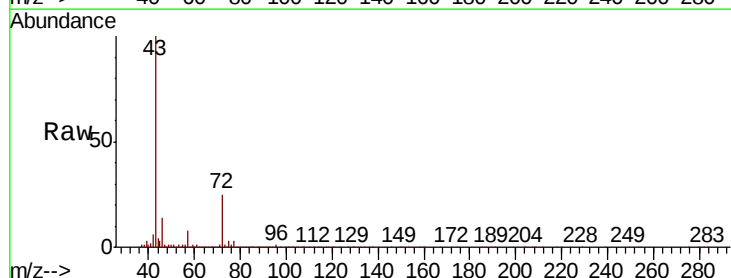
Instrument :  
 MSVOA\_V  
 ClientSampleId :

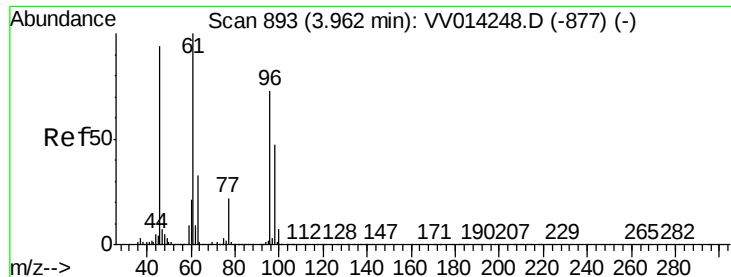
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 33.1  | 23.2  | 43.0  |
| 83      | 13.0  | 9.1   | 16.9  |



#21  
 2-Butanone  
 Concen: 63.107 ug/L  
 RT: 4.04 min Scan# 918  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 24.9  | 12.4  | 37.4  |



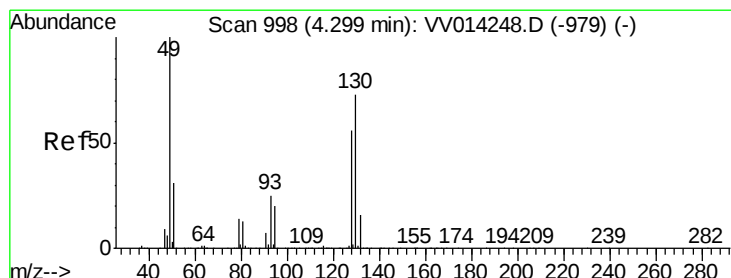
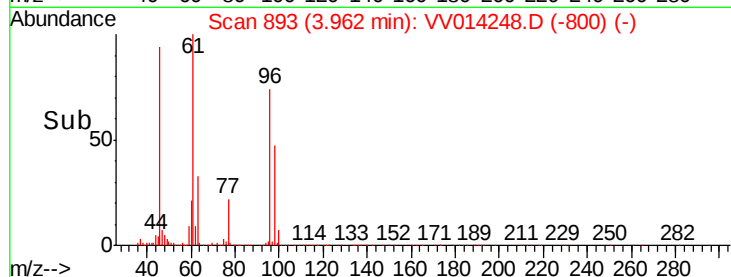
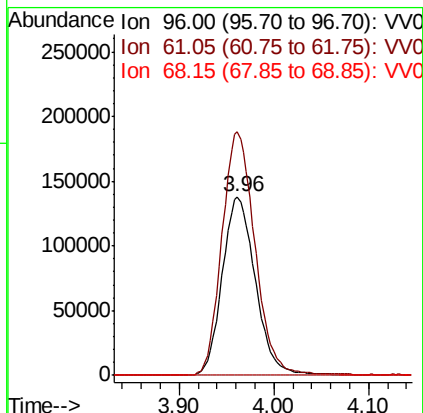
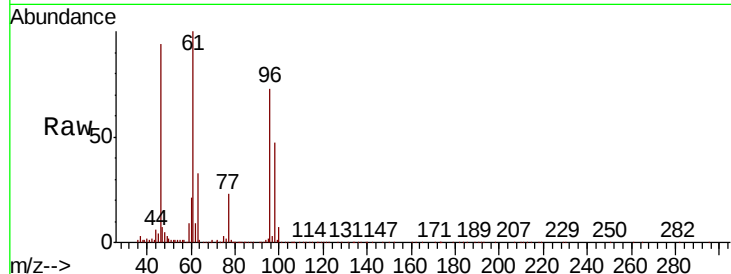


#22

cis-1,2-Dichloroethene  
Concen: 4.956 ug/L  
RT: 3.96 min Scan# 893  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

Instrument :  
MSVOA\_V  
ClientSampleId :

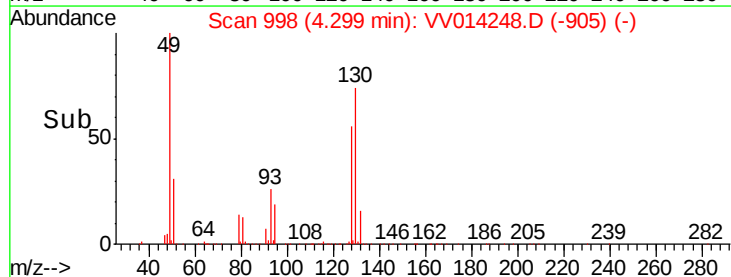
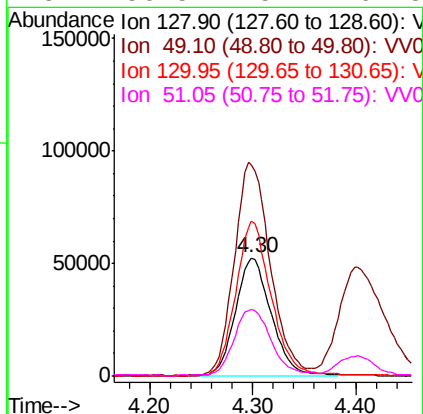
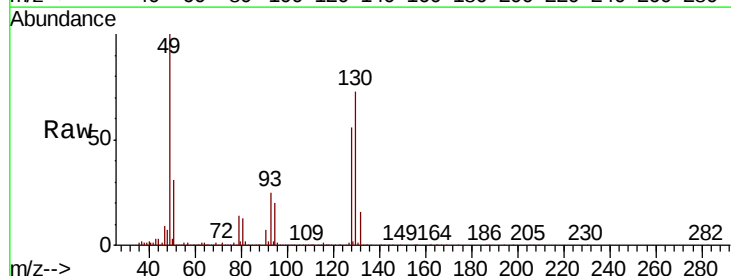
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 136.1 | 95.3  | 176.9 |
| 68      | 0.2   | 0.1   | 0.3   |

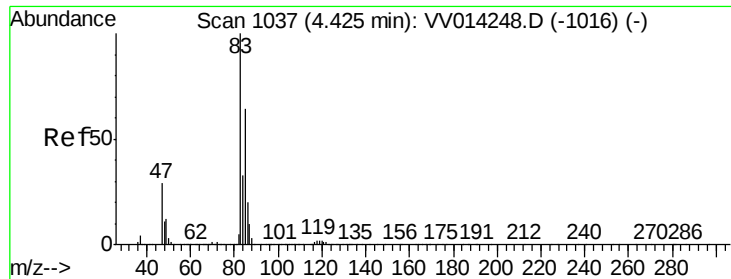


#23

Bromochloromethane  
Concen: 4.826 ug/L  
RT: 4.30 min Scan# 998  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 179.4 | 125.6 | 233.2 |
| 130     | 130.9 | 91.6  | 170.2 |
| 51      | 56.5  | 45.2  | 67.8  |

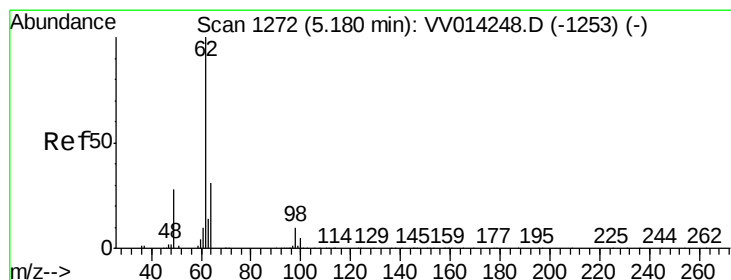
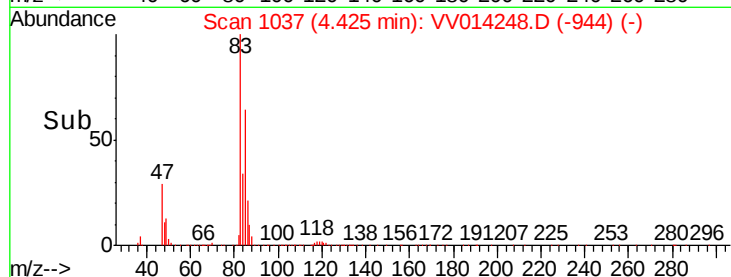
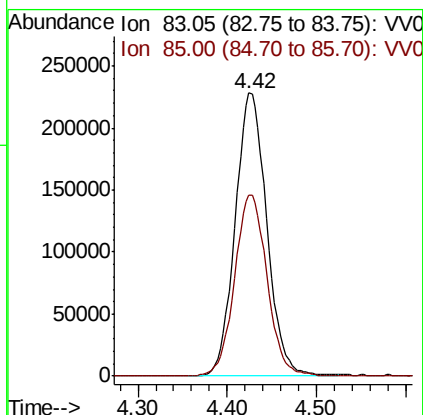
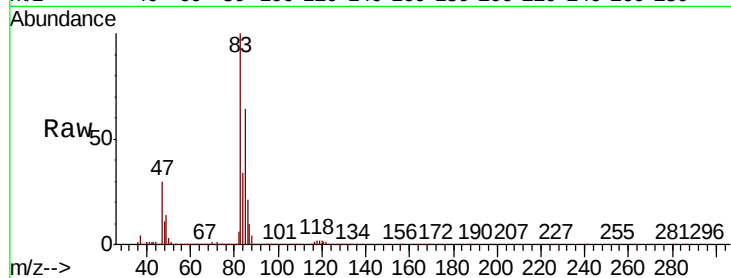




#25  
Chloroform  
Concen: 4.874 ug/L  
RT: 4.42 min Scan# 1037  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

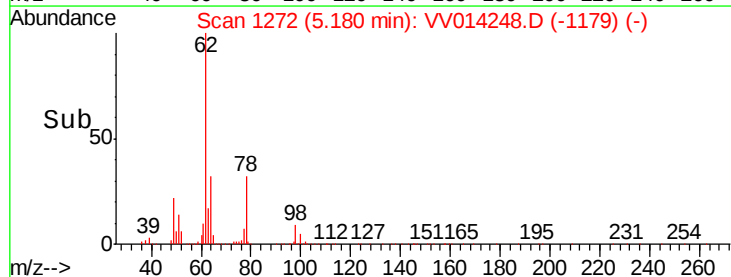
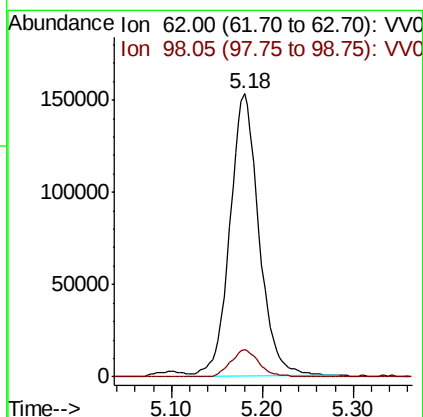
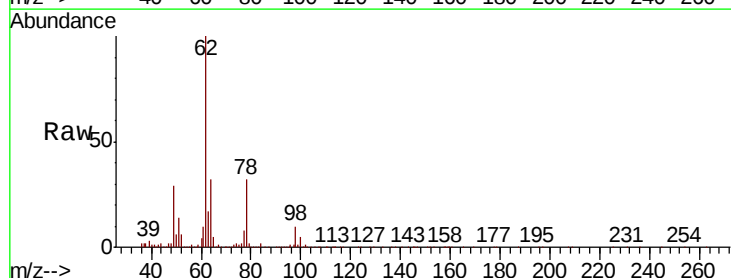
Instrument :  
MSVOA\_V  
ClientSampled :

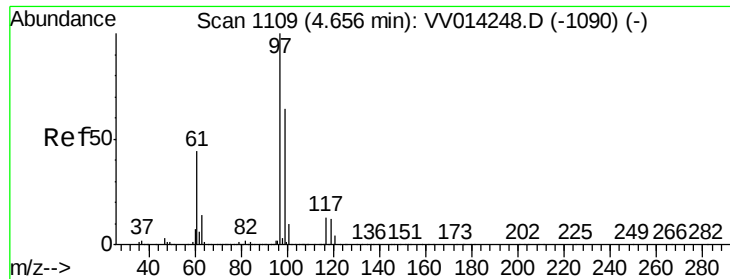
Tot Ion: 83 Resp: 560628  
Ion Ratio Lower Upper  
83 100  
85 64.0 44.8 83.2



#27  
1,2-Dichloroethane  
Concen: 5.172 ug/L  
RT: 5.18 min Scan# 1272  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

Tgt Ion: 62 Resp: 340386  
Ion Ratio Lower Upper  
62 100  
98 9.5 7.6 11.4

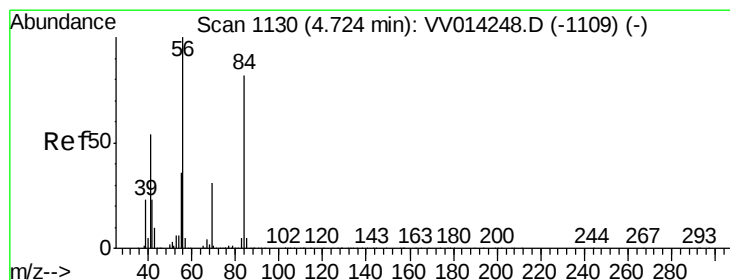
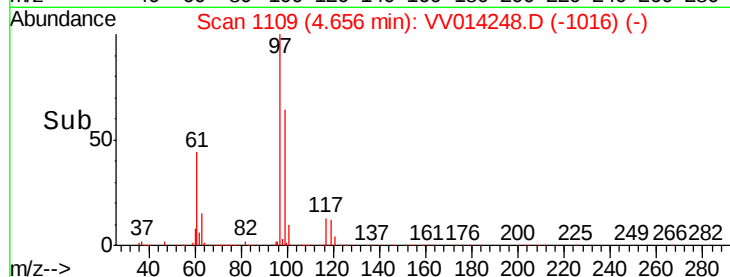
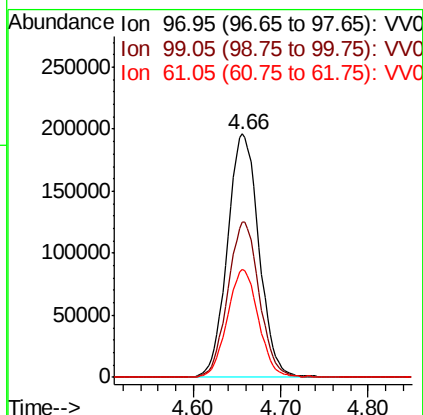
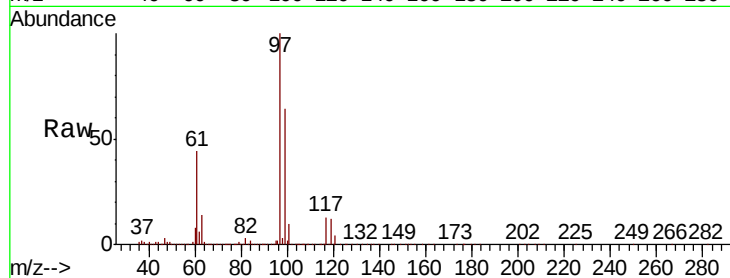




#29  
1,1,1-Trichloroethane  
Concen: 4.901 ug/L  
RT: 4.66 min Scan# 1109  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

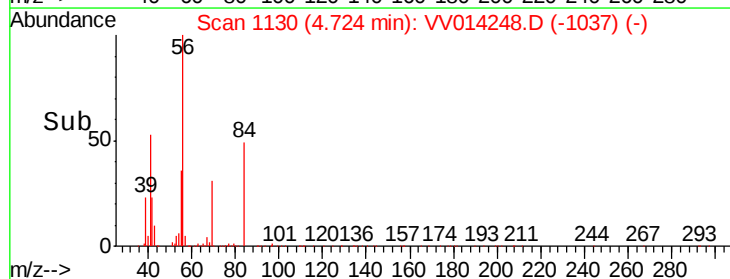
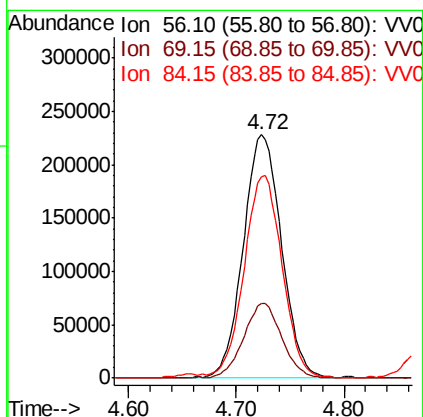
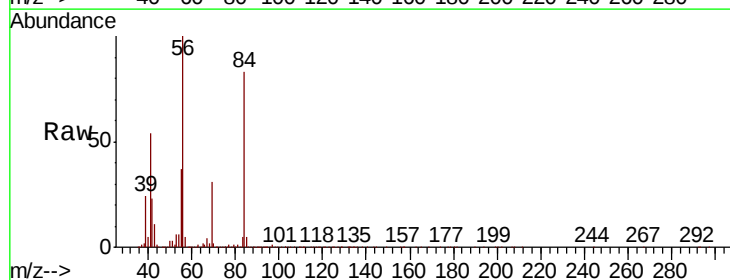
Instrument :  
MSVOA\_V  
ClientSampled :

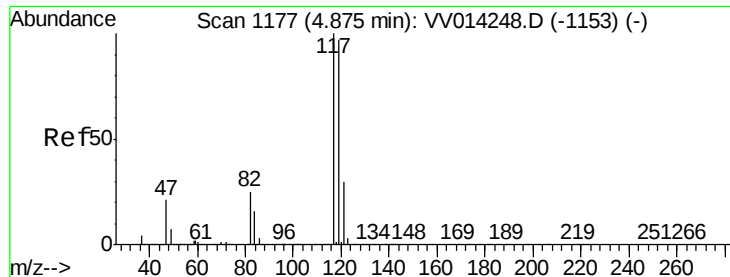
| Tot Ion   | 97    | Resp  | 488081 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 63.6  | 50.9  | 76.3   |
| 61        | 43.6  | 34.9  | 52.3   |



#30  
Cyclohexane  
Concen: 5.091 ug/L  
RT: 4.72 min Scan# 1130  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

| Tgt Ion   | 56    | Resp  | 560397 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 56        | 100   |       |        |
| 69        | 30.0  | 24.0  | 36.0   |
| 84        | 82.5  | 66.0  | 99.0   |

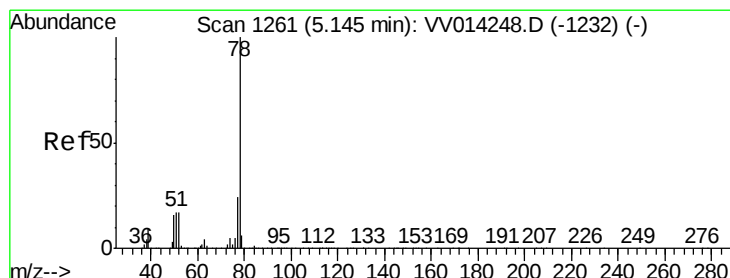
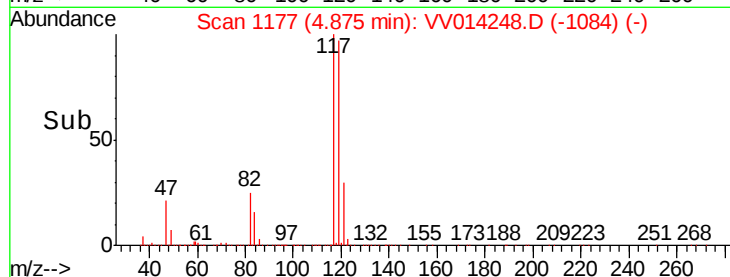
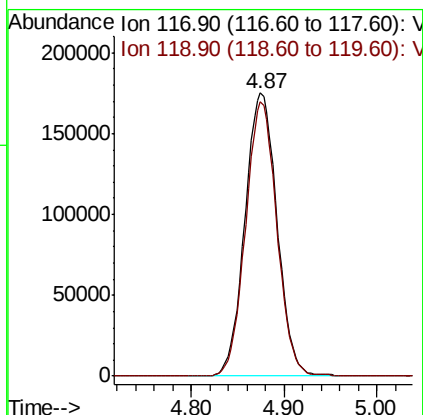
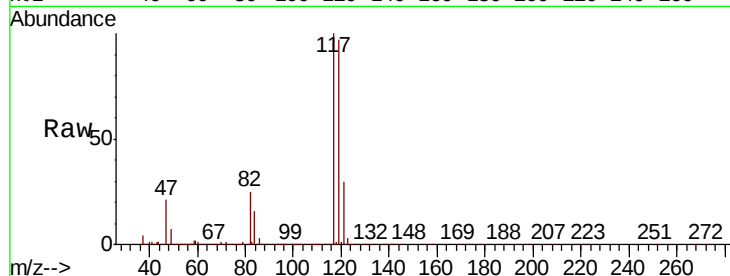




#31  
Carbon tetrachloride  
Concen: 4.944 ug/L  
RT: 4.87 min Scan# 1177  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

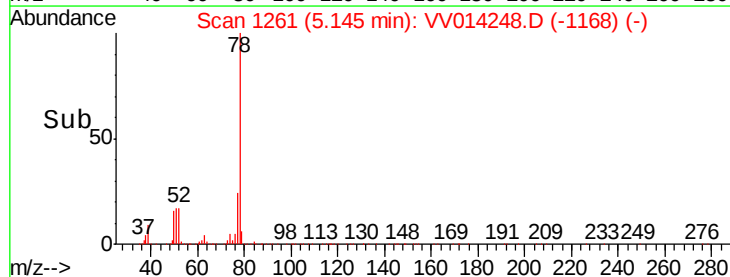
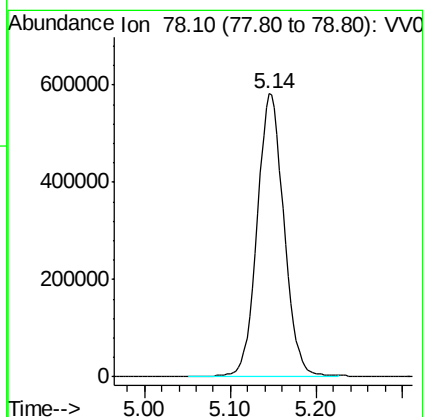
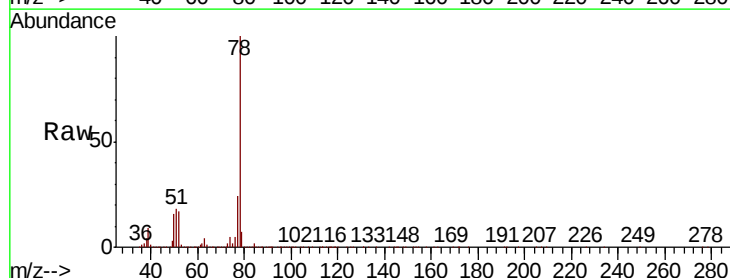
Instrument :  
MSVOA\_V  
ClientSampleId :

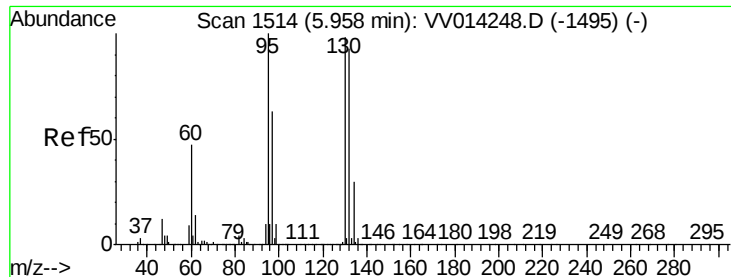
Tot Ion:117 Resp: 421203  
Ion Ratio Lower Upper  
117 100  
119 94.3 75.4 113.2



#33  
Benzene  
Concen: 4.971 ug/L  
RT: 5.14 min Scan# 1261  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

Tgt Ion: 78 Resp: 1264420

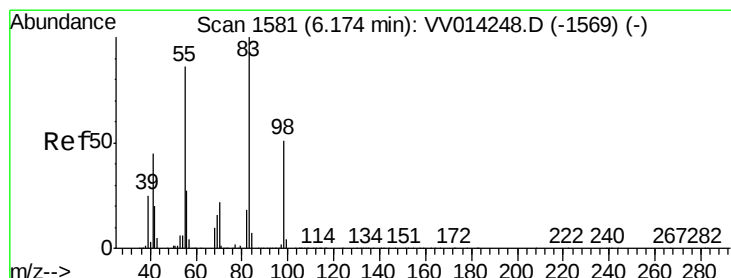
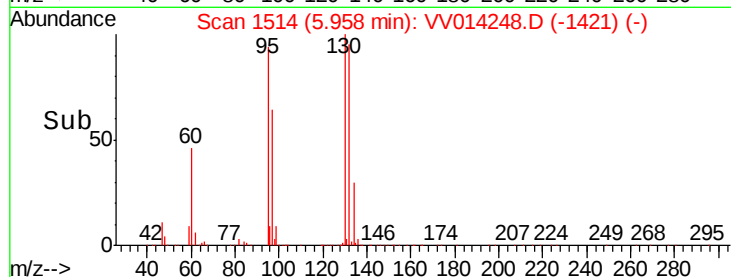
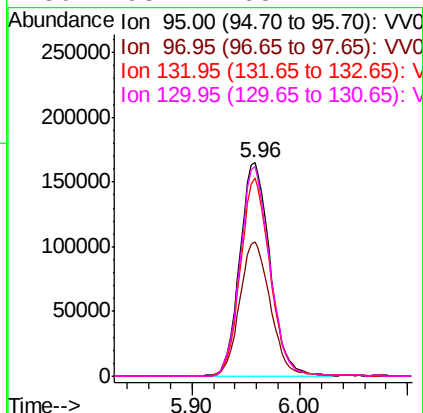
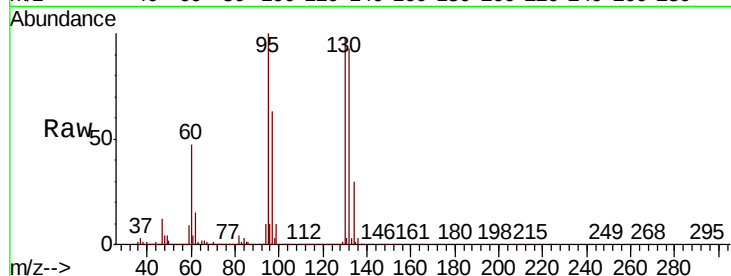




#34  
 Trichloroethene  
 Concen: 4.768 ug/L  
 RT: 5.96 min Scan# 1514  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

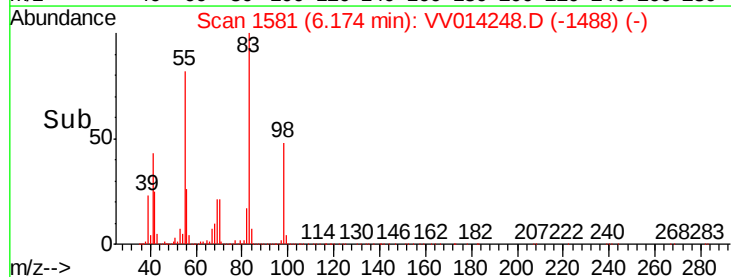
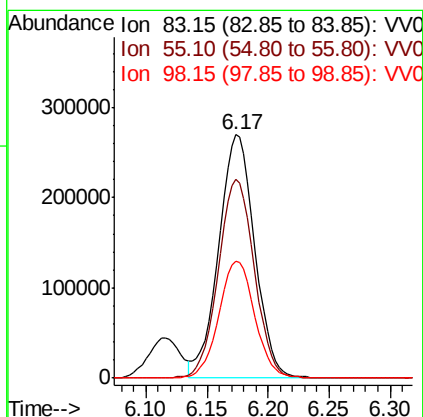
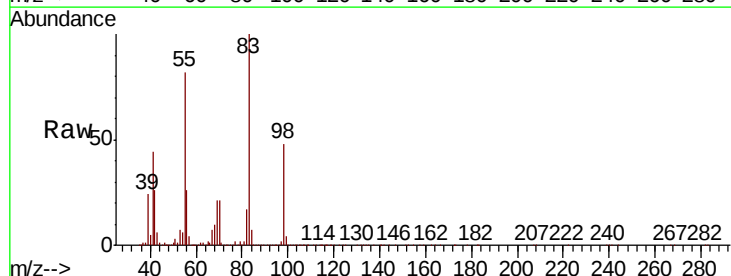
Instrument :  
 MSVOA\_V  
 ClientSampleId :

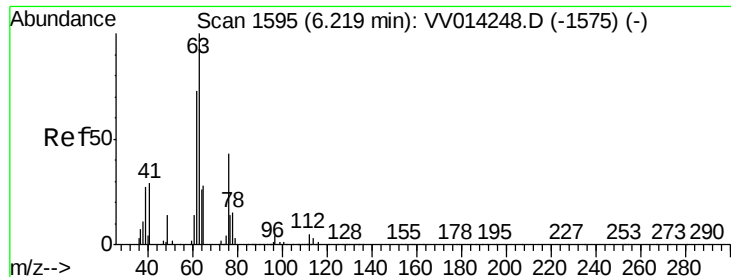
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 95    | Resp: | 321611 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 63.2  | 44.2  | 82.2   |
| 132      | 93.1  | 65.2  | 121.0  |
| 130      | 98.2  | 68.7  | 127.7  |



#35  
 Methylcyclohexane  
 Concen: 4.889 ug/L  
 RT: 6.17 min Scan# 1581  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 555365 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 81.2  | 65.0  | 97.4   |
| 98       | 48.1  | 38.5  | 57.7   |

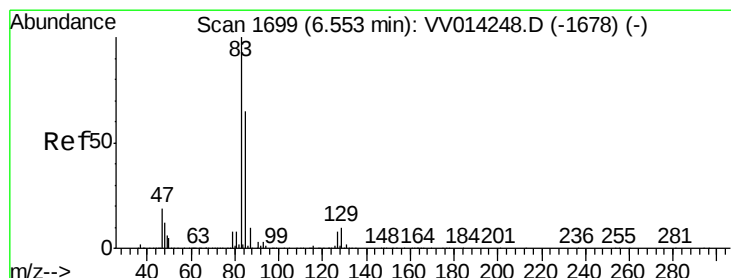
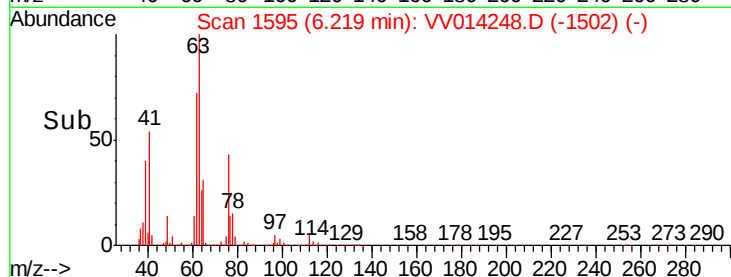
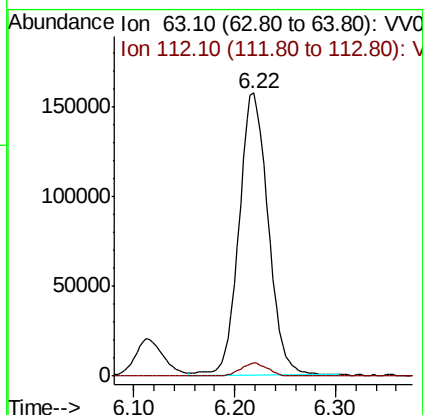
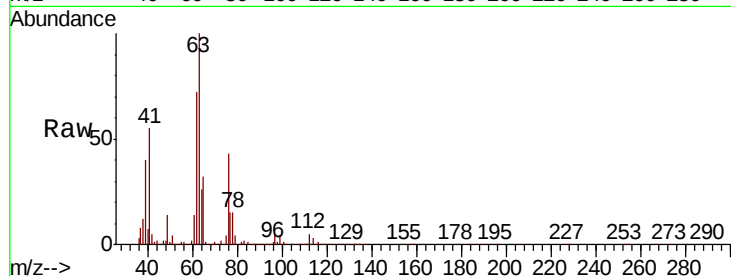




#37  
 1,2-Dichloropropane  
 Concen: 5.075 ug/L  
 RT: 6.22 min Scan# 1595  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

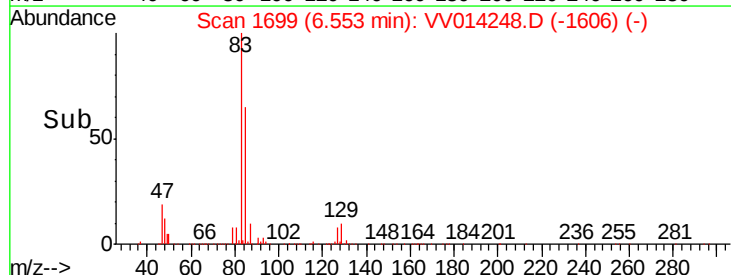
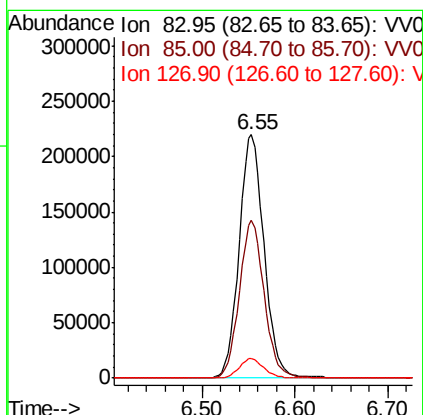
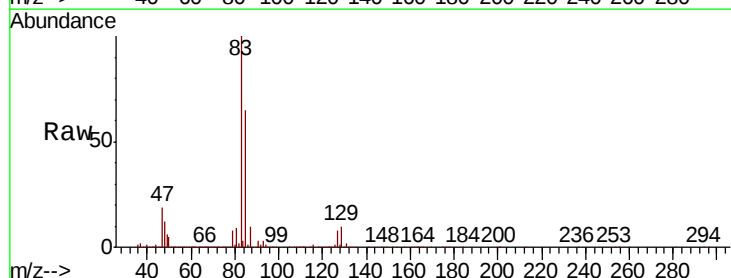
Instrument :  
 MSVOA\_V  
 ClientSampleId :

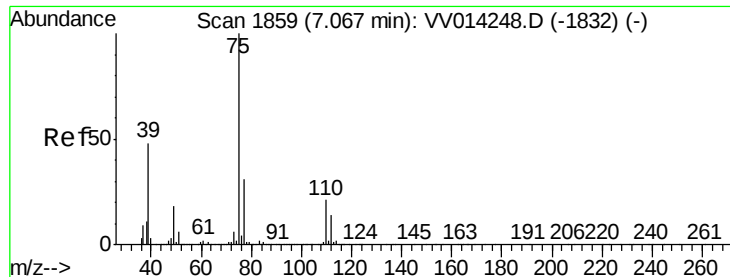
Tot Ion: 63 Resp: 313958  
 Ion Ratio Lower Upper  
 63 100  
 112 4.4 3.5 5.3



#38  
 Bromodichloromethane  
 Concen: 4.950 ug/L  
 RT: 6.55 min Scan# 1699  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

Tgt Ion: 83 Resp: 408655  
 Ion Ratio Lower Upper  
 83 100  
 85 64.6 45.2 84.0  
 127 8.0 6.4 9.6

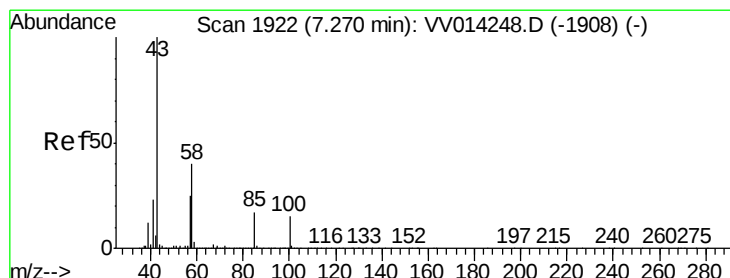
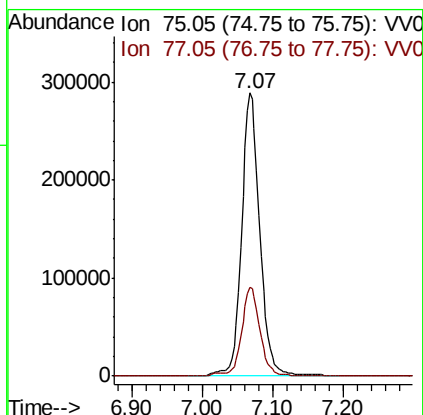
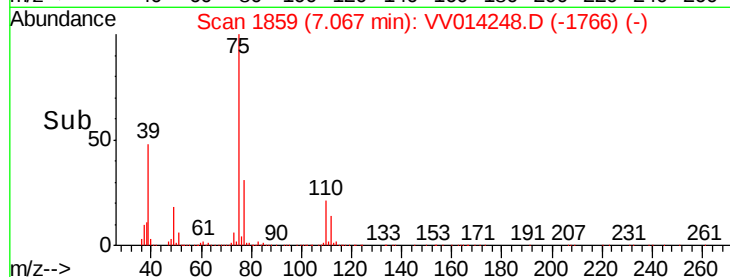
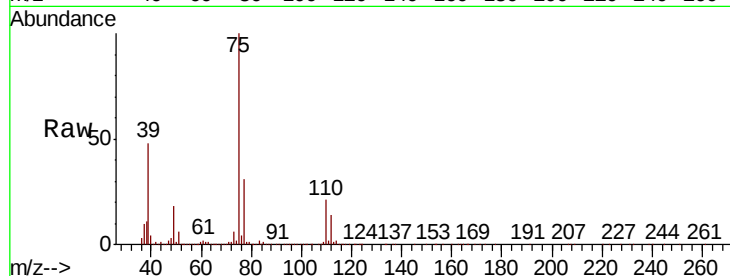




#39  
 cis-1,3-Dichloropropene  
 Concen: 5.078 ug/L  
 RT: 7.07 min Scan# 1859  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

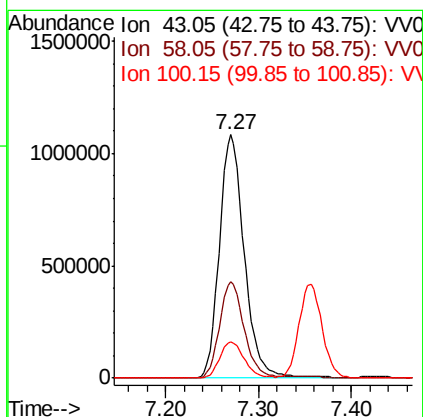
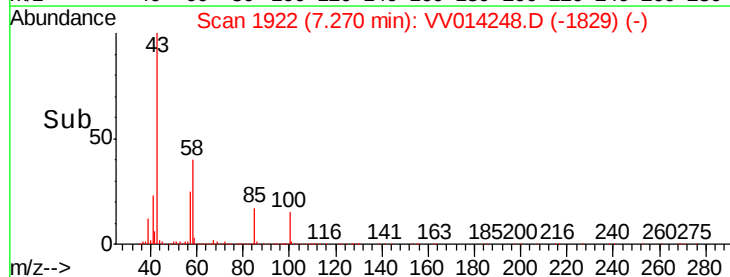
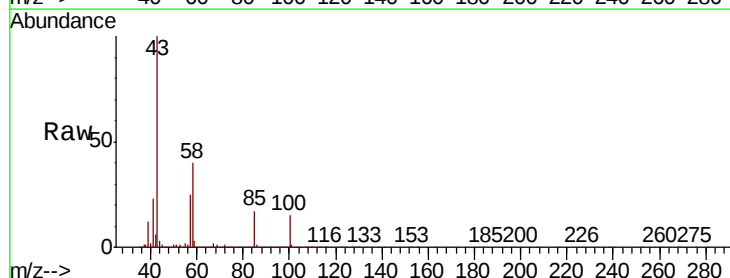
Instrument :  
 MSVOA\_V  
 ClientSampleId :

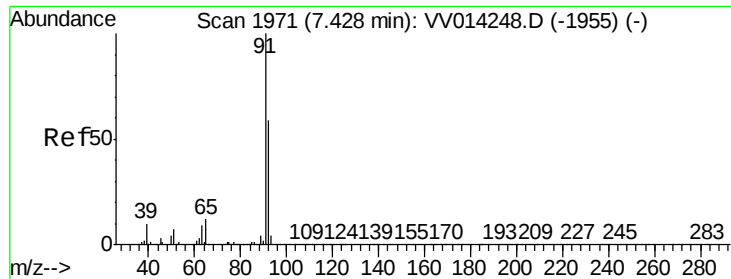
Tot Ion: 75 Resp: 516768  
 Ion Ratio Lower Upper  
 75 100  
 77 31.3 21.9 40.7



#40  
 4-Methyl-2-pentanone  
 Concen: 51.526 ug/L  
 RT: 7.27 min Scan# 1922  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

Tgt Ion: 43 Resp: 2012444  
 Ion Ratio Lower Upper  
 43 100  
 58 39.1 31.3 46.9  
 100 14.8 11.8 17.8





#42

Toluene

Concen: 4.764 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

Instrument :

MSVOA\_V

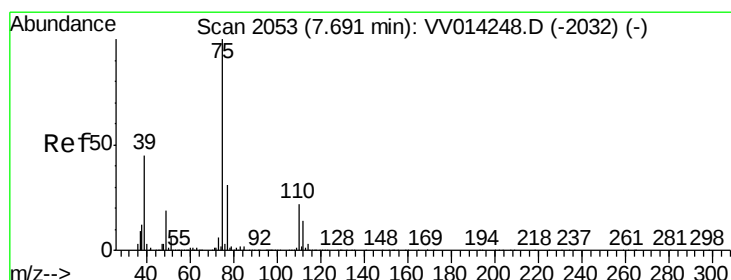
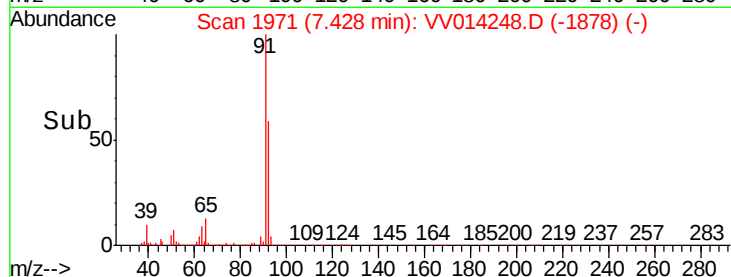
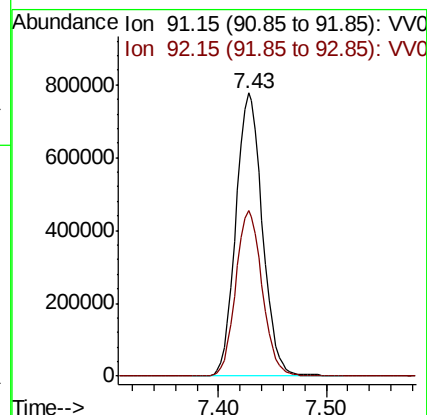
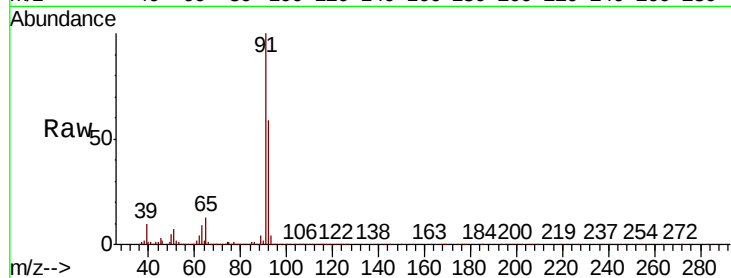
ClientSampleId :

Tot Ion: 91 Resp: 1325715

Ion Ratio Lower Upper

91 100

92 58.6 41.0 76.2



#44

trans-1,3-Dichloropropene

Concen: 5.077 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014248.D

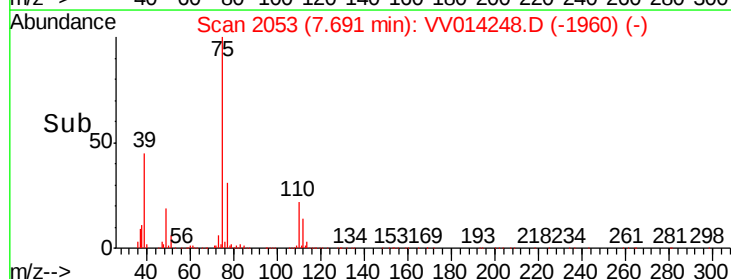
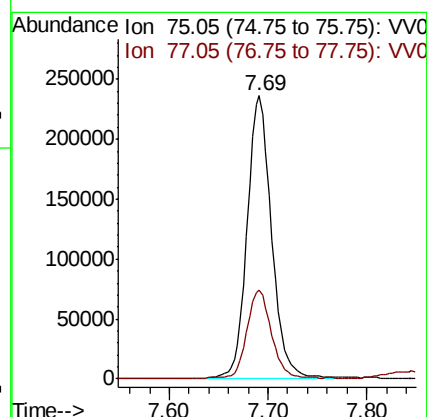
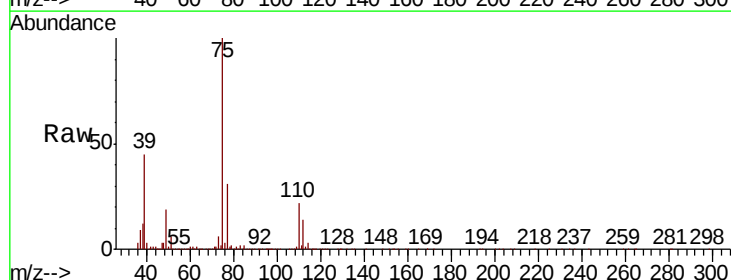
Acq: 02 Jan 2020 14:41

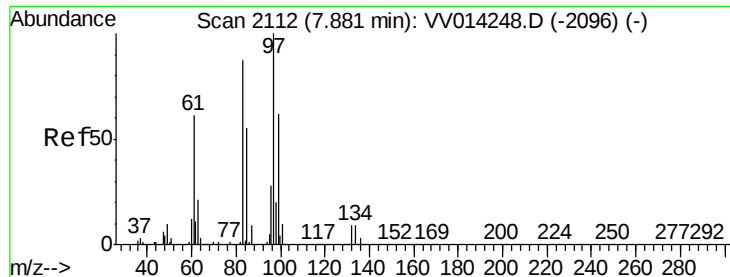
Tgt Ion: 75 Resp: 405856

Ion Ratio Lower Upper

75 100

77 31.4 22.0 40.8

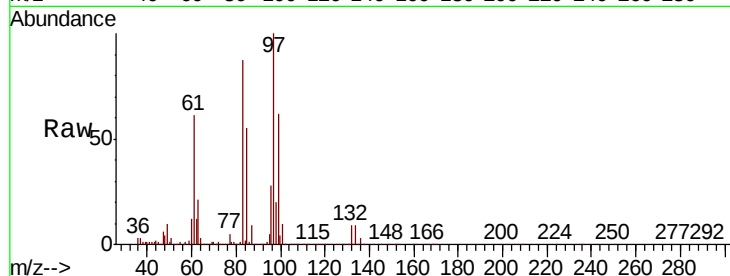




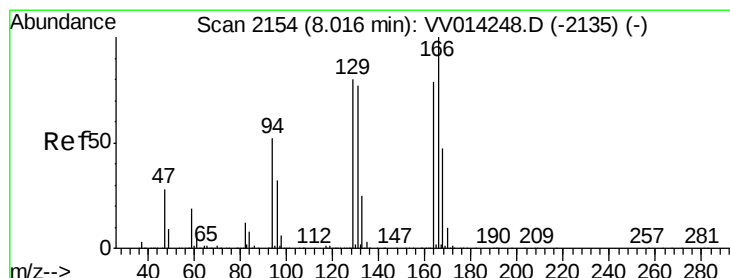
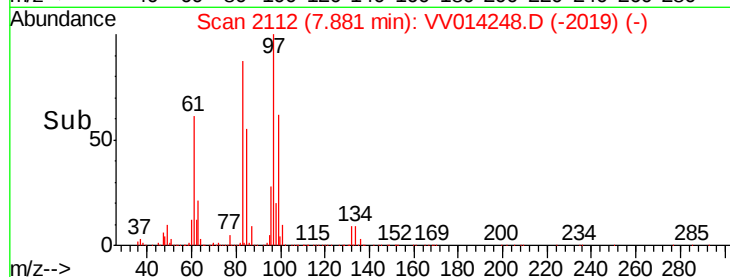
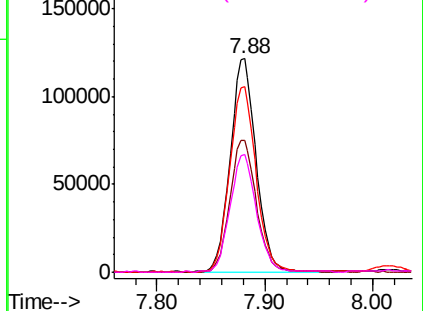
#45  
 1,1,2-Trichloroethane  
 Concen: 4.811 ug/L  
 RT: 7.88 min Scan# 2112  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

Instrument :  
 MSVOA\_V  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 201994 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 61.5  | 43.0  | 80.0   |
| 83       | 86.6  | 60.6  | 112.6  |
| 85       | 55.2  | 38.6  | 71.8   |

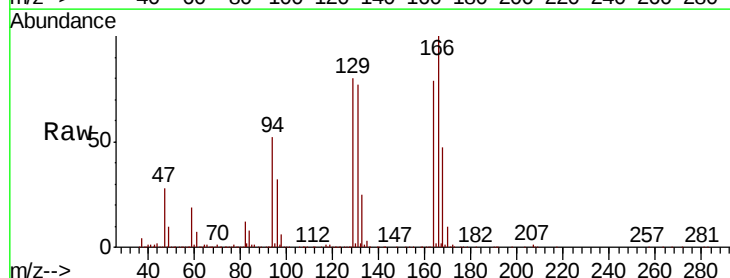


Abundance Ion 96.95 (96.65 to 97.65): VV0  
 Ion 99.05 (98.75 to 99.75): VV0  
 Ion 82.95 (82.65 to 83.65): VV0  
 Ion 85.00 (84.70 to 85.70): VV0

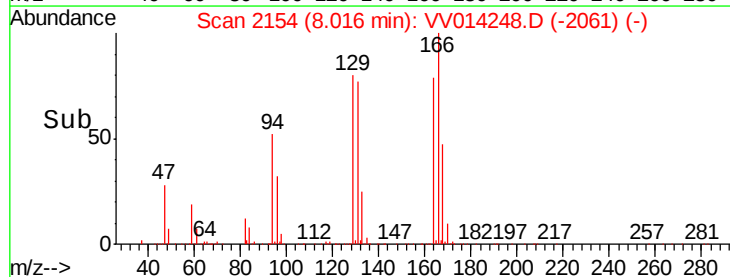
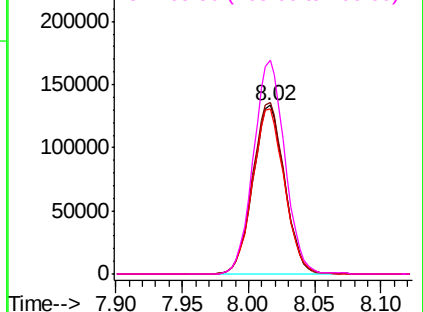


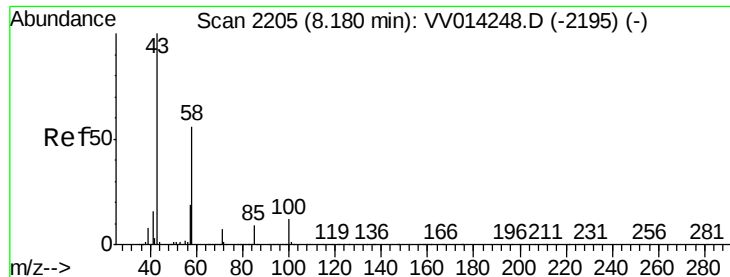
#47  
 Tetrachloroethene  
 Concen: 4.703 ug/L  
 RT: 8.02 min Scan# 2154  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 221566 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 101.5 | 71.0  | 131.9  |
| 131      | 97.9  | 68.5  | 127.3  |
| 166      | 126.8 | 88.8  | 164.8  |



Abundance Ion 163.90 (163.60 to 164.60): V  
 Ion 128.95 (128.65 to 129.65): V  
 Ion 130.95 (130.65 to 131.65): V  
 Ion 165.90 (165.60 to 166.60): V

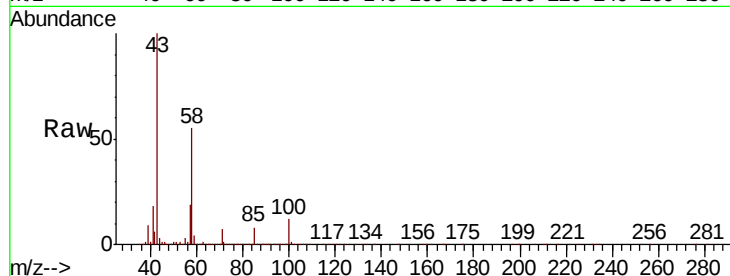




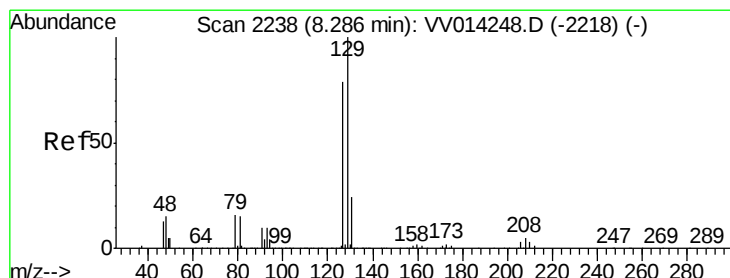
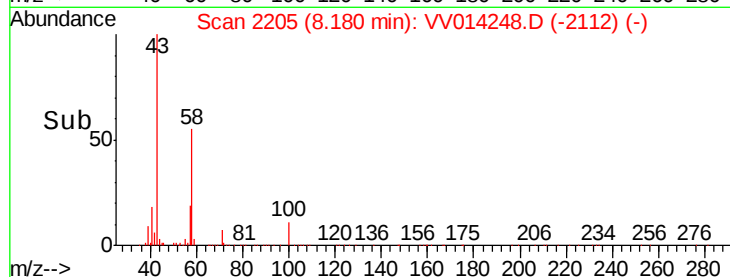
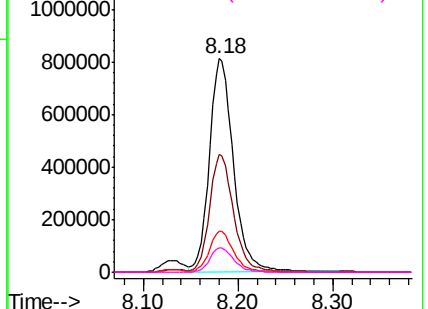
#48  
2-Hexanone  
Concen: 52.911 ug/L  
RT: 8.18 min Scan# 2205  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 43 Resp: 1429858  
Ion Ratio Lower Upper  
43 100  
58 55.0 44.0 66.0  
57 19.4 15.5 23.3  
100 11.7 9.4 14.0

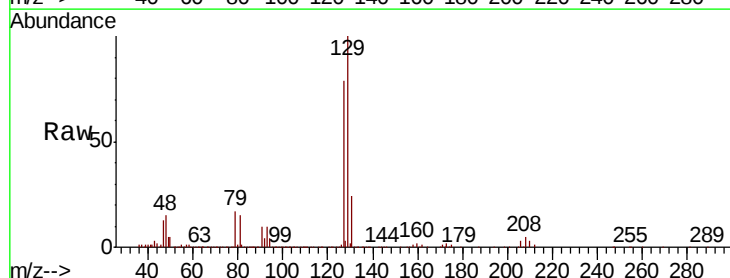


Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

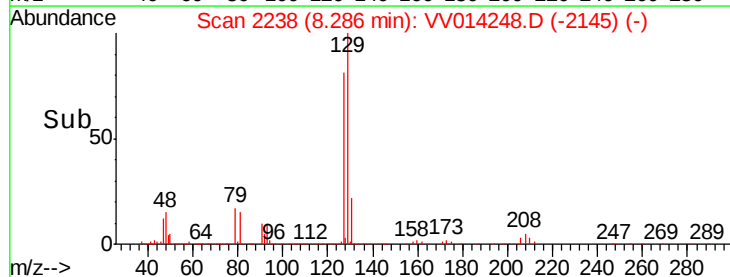
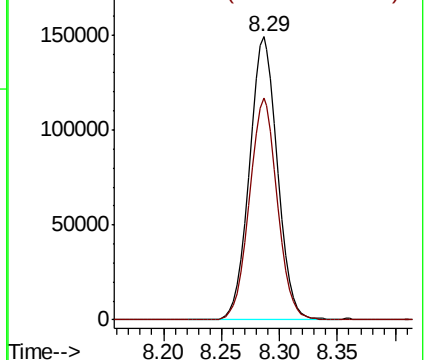


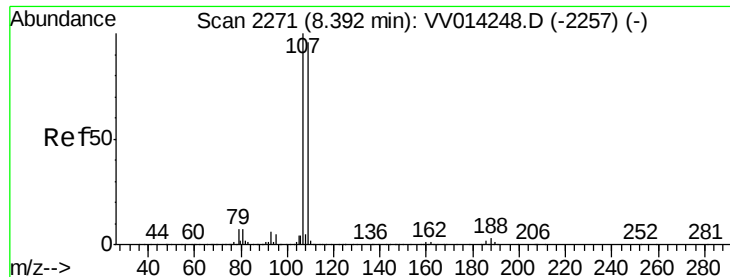
#49  
Dibromochloromethane  
Concen: 4.705 ug/L  
RT: 8.29 min Scan# 2238  
Delta R.T. 0.00 min  
Lab File: VV014248.D  
Acq: 02 Jan 2020 14:41

Tgt Ion: 129 Resp: 251174  
Ion Ratio Lower Upper  
129 100  
127 78.5 54.9 102.1



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V

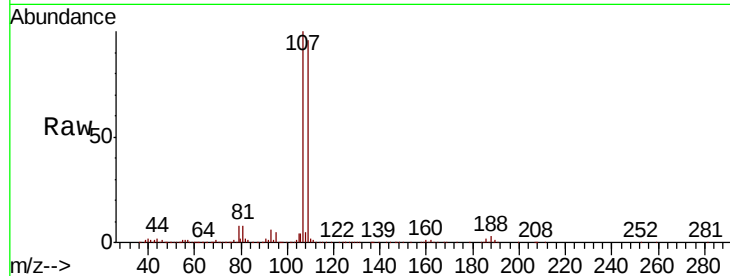




#50  
 1,2-Dibromoethane  
 Concen: 4.887 ug/L  
 RT: 8.39 min Scan# 2271  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

Instrument :  
 MSVOA\_V  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 96.5  | 67.5  | 125.4 |
| 188     | 3.3   | 2.6   | 4.0   |

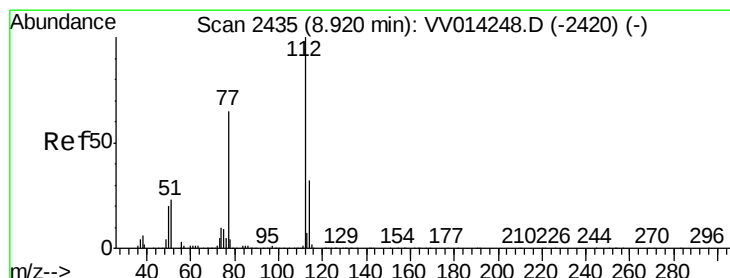
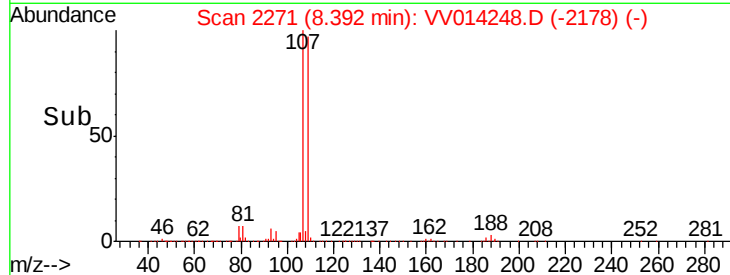
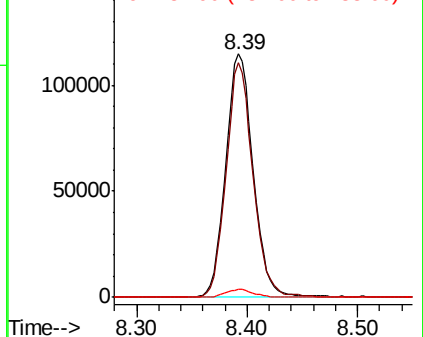


Abundance

Ion 106.95 (106.65 to 107.65): V

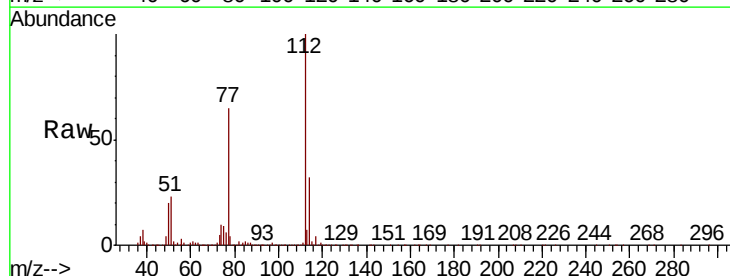
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51  
 Chlorobenzene  
 Concen: 4.730 ug/L  
 RT: 8.92 min Scan# 2435  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.4  | 22.7  | 42.1  |
| 77      | 64.8  | 51.8  | 77.8  |

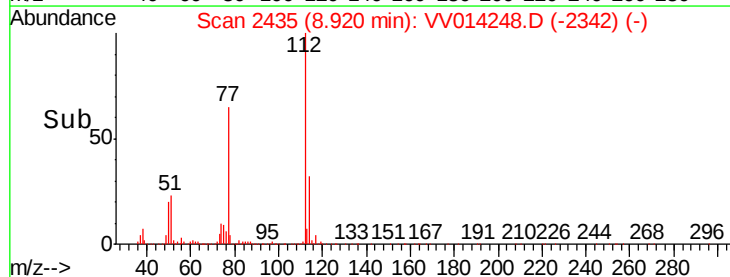
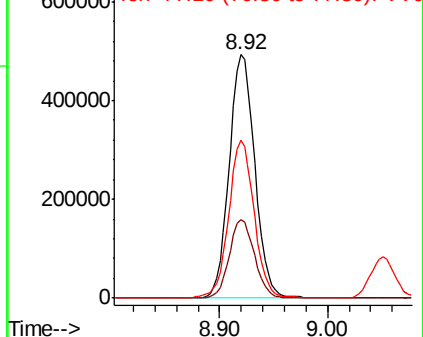


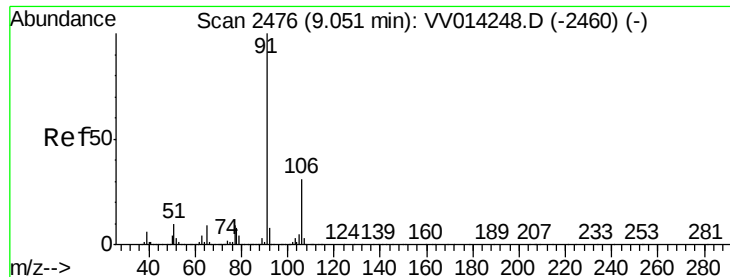
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 4.844 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

Instrument :

MSVOA\_V

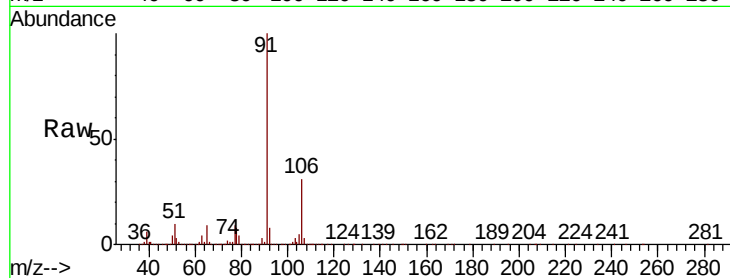
ClientSampleId :

Tot Ion: 91 Resp: 1498078

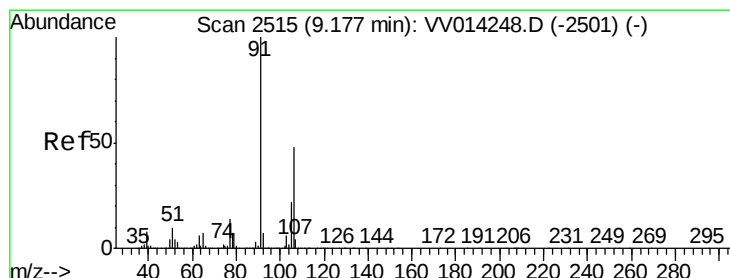
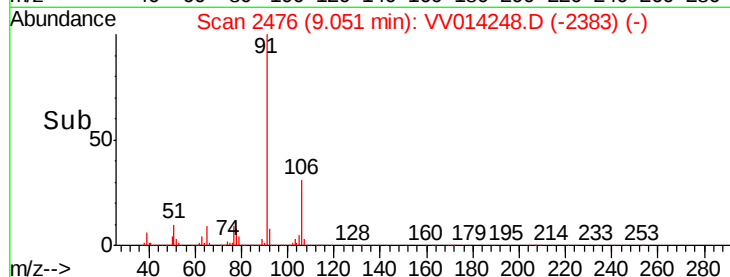
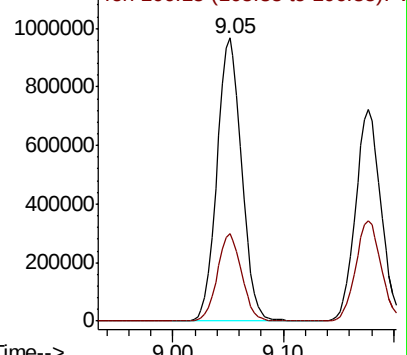
Ion Ratio Lower Upper

91 100

106 30.8 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV014248.D (-2460) (-)



#53

m,p-xylene

Concen: 4.778 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014248.D

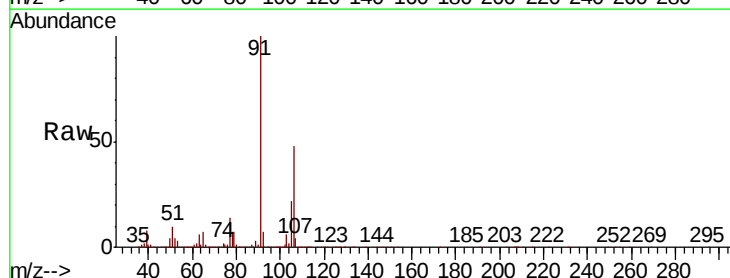
Acq: 02 Jan 2020 14:41

Tgt Ion: 106 Resp: 553625

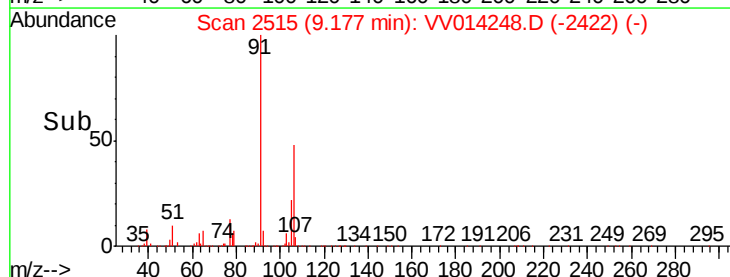
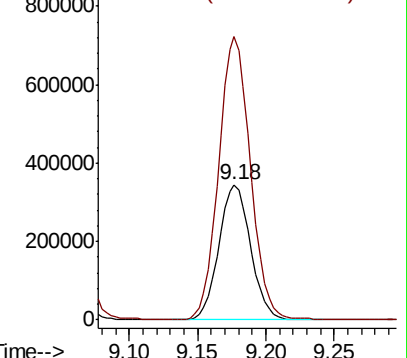
Ion Ratio Lower Upper

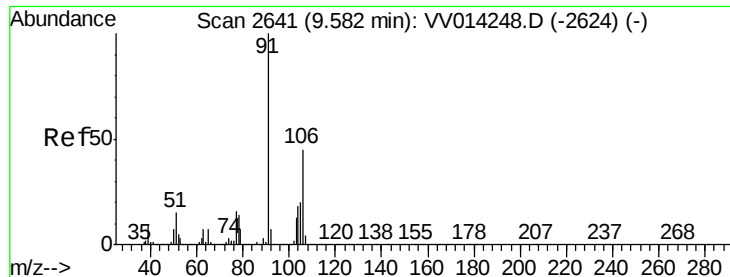
106 100

91 209.5 146.7 272.4



Abundance Ion 106.15 (105.85 to 106.85): VV014248.D (-2501) (-)





#54

o-xylene

Concen: 4.784 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

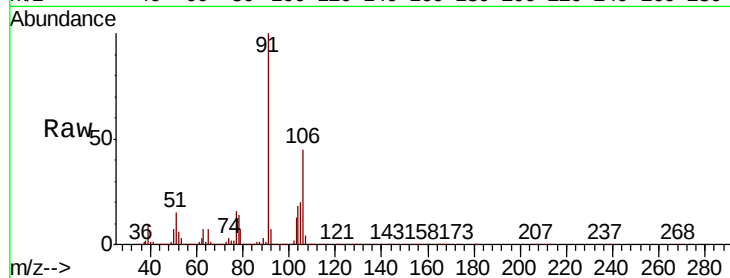
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:106 Resp: 539737

Ion Ratio Lower Upper

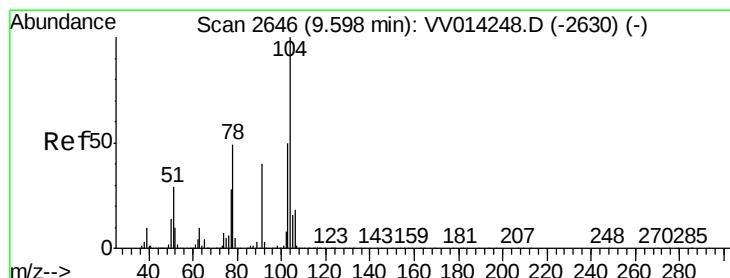
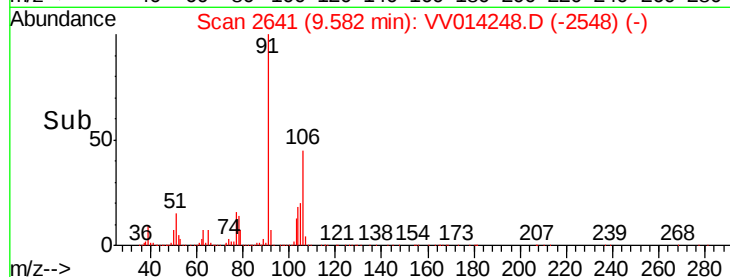
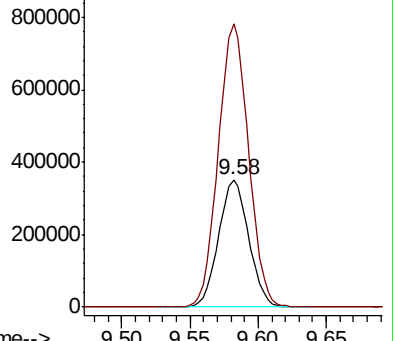
106 100

91 221.6 155.1 288.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 4.804 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV014248.D

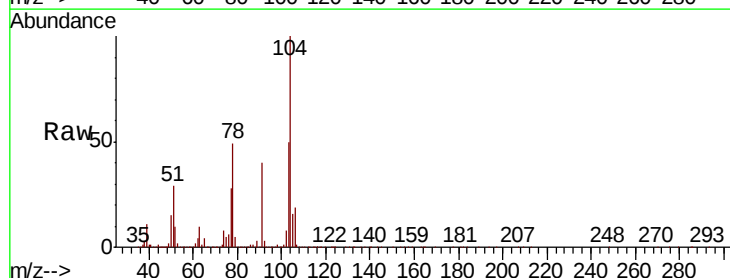
Acq: 02 Jan 2020 14:41

Tgt Ion:104 Resp: 912699

Ion Ratio Lower Upper

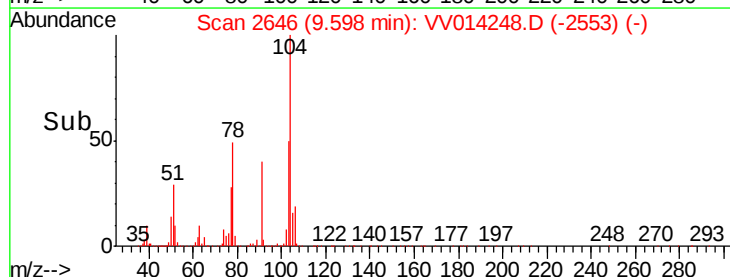
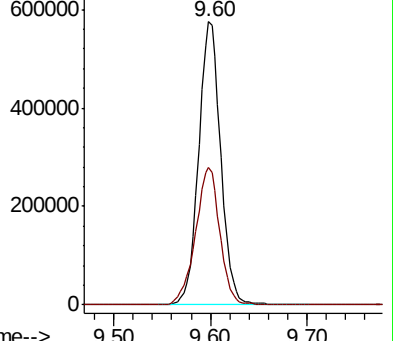
104 100

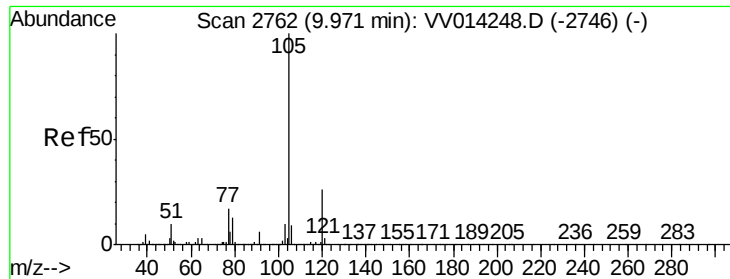
78 48.7 34.1 63.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.829 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

Instrument :

MSVOA\_V

ClientSampleId :

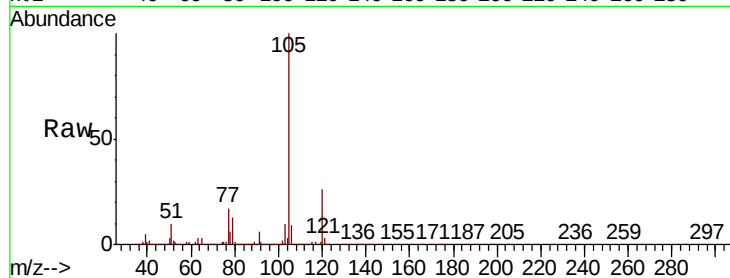
Tot Ion:105 Resp: 1434160

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.6

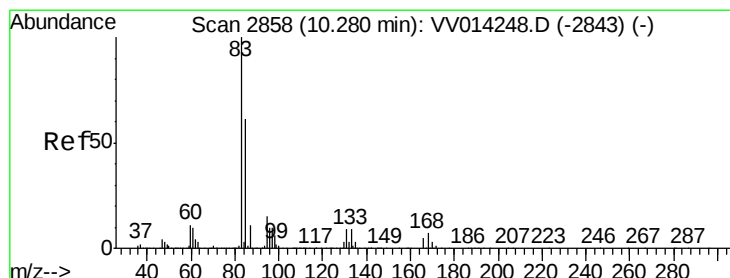
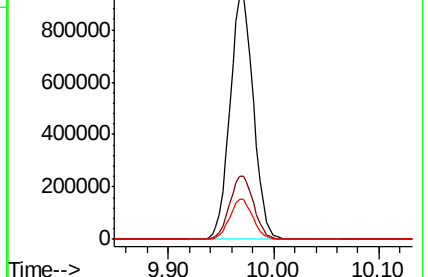
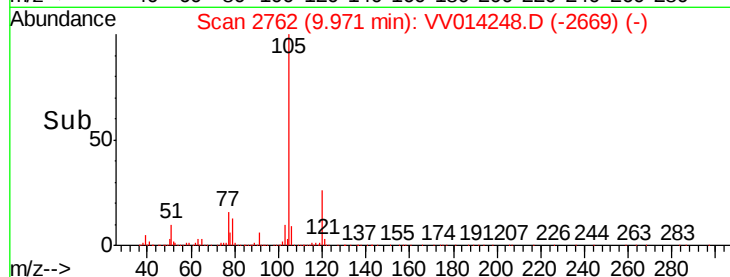
77 16.2 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.945 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

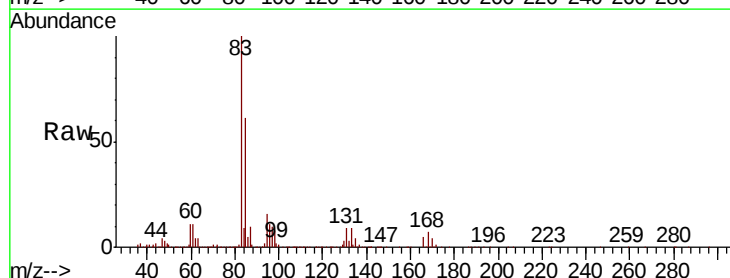
Tgt Ion: 83 Resp: 253696

Ion Ratio Lower Upper

83 100

85 60.6 42.4 78.8

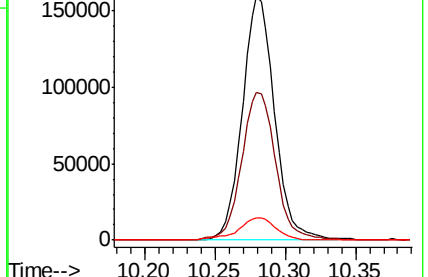
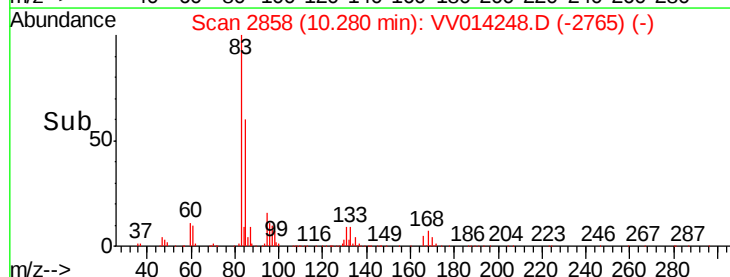
131 9.3 7.4 11.2

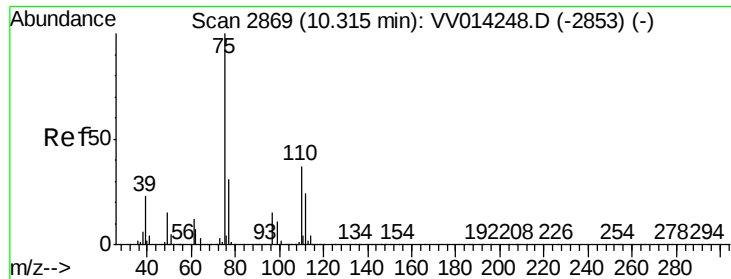


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

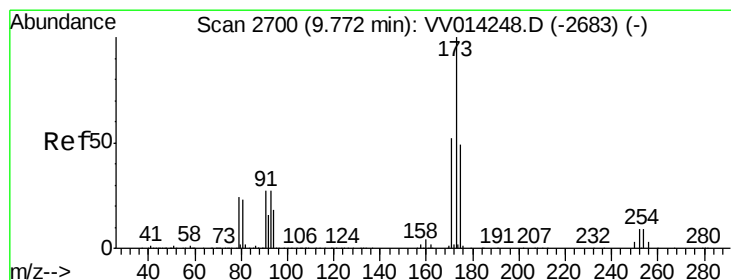
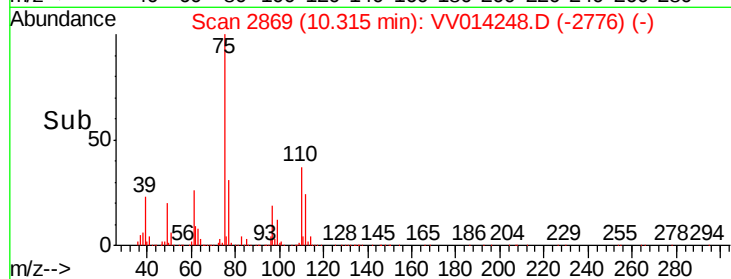
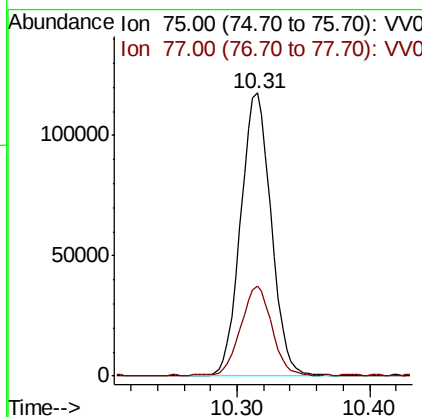
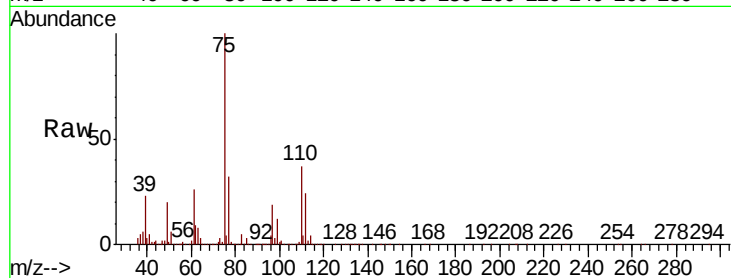




#59  
 1,2,3-Trichloropropane  
 Concen: 4.937 ug/L  
 RT: 10.31 min Scan# 2869  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

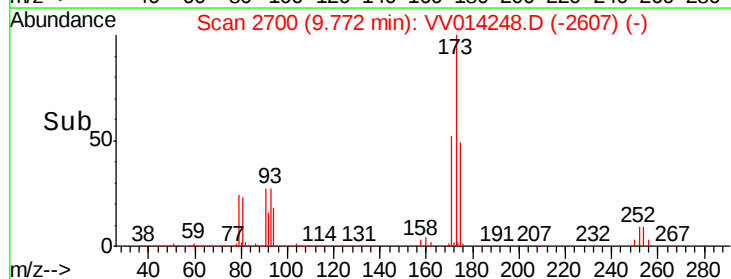
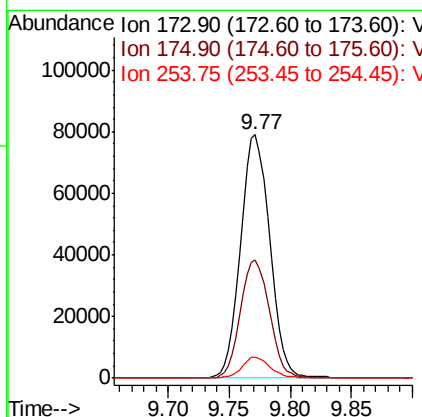
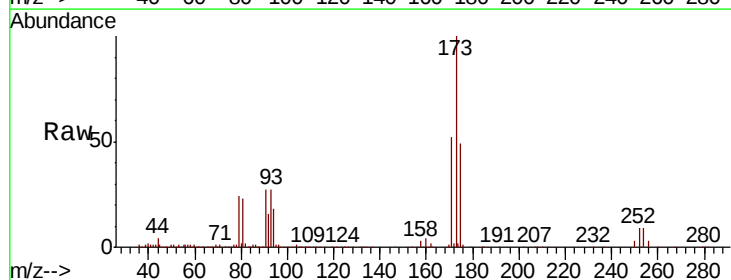
Instrument :  
 MSVOA\_V  
 ClientSampled :

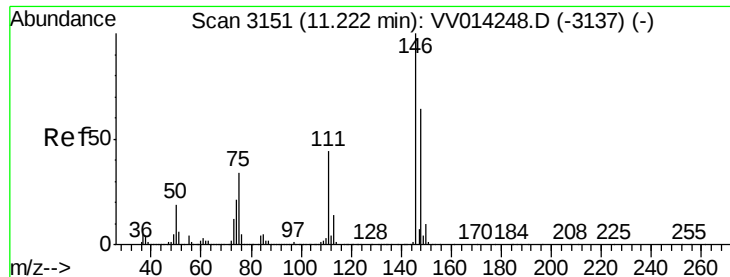
Tot Ion: 75 Resp: 187947  
 Ion Ratio Lower Upper  
 75 100  
 77 31.6 25.3 37.9



#61  
 Bromoform  
 Concen: 4.738 ug/L  
 RT: 9.77 min Scan# 2700  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

Tgt Ion: 173 Resp: 130726  
 Ion Ratio Lower Upper  
 173 100  
 175 48.5 38.8 58.2  
 254 8.3 6.6 10.0





#62

1,3-Dichlorobenzene

Concen: 4.764 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

Instrument :

MSVOA\_V

ClientSampleId :

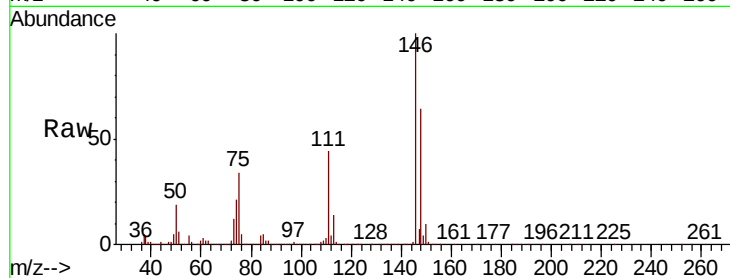
Tot Ion:146 Resp: 595266

Ion Ratio Lower Upper

146 100

111 43.7 30.6 56.8

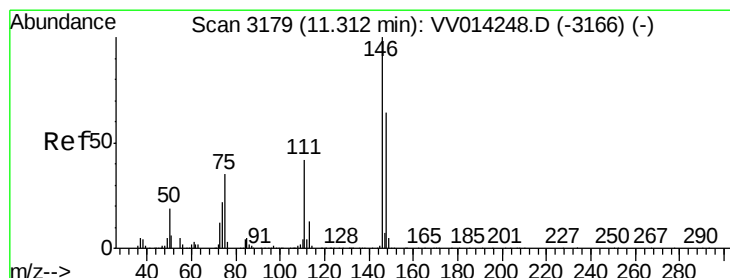
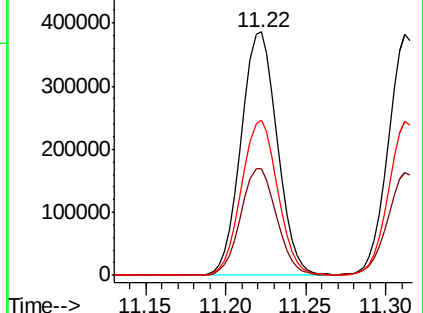
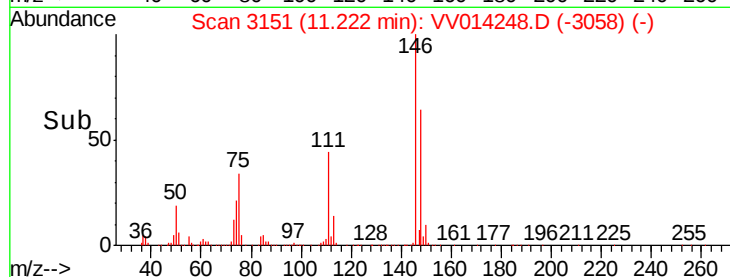
148 63.8 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.767 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

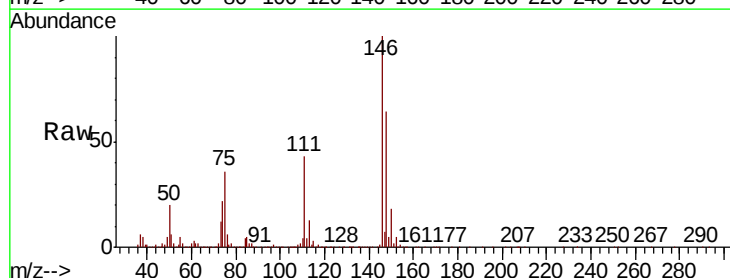
Tgt Ion:146 Resp: 594946

Ion Ratio Lower Upper

146 100

111 42.6 29.8 55.4

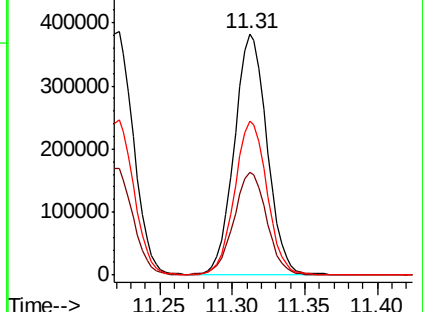
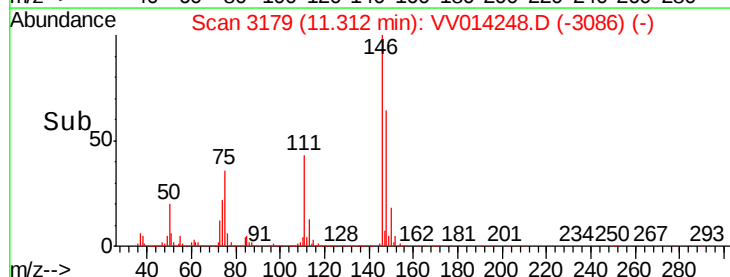
148 63.7 44.6 82.8

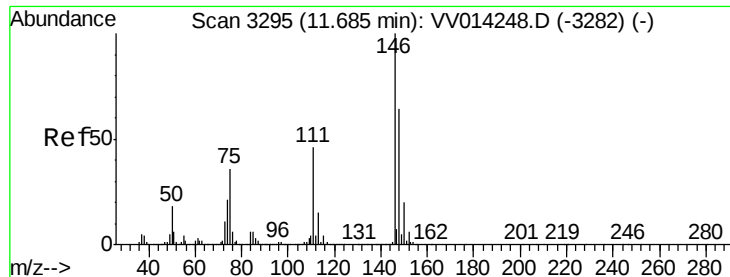


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

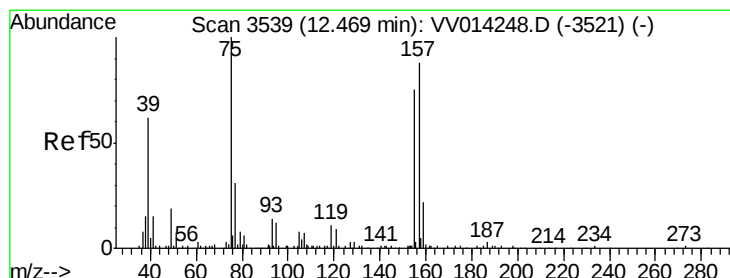
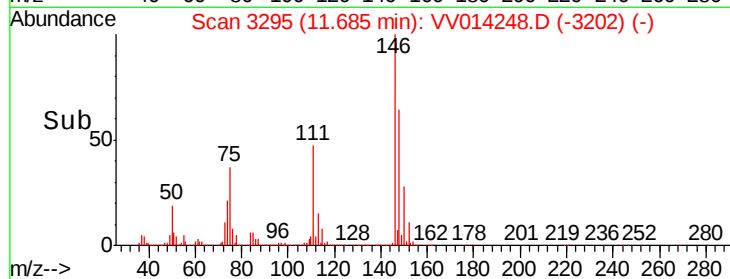
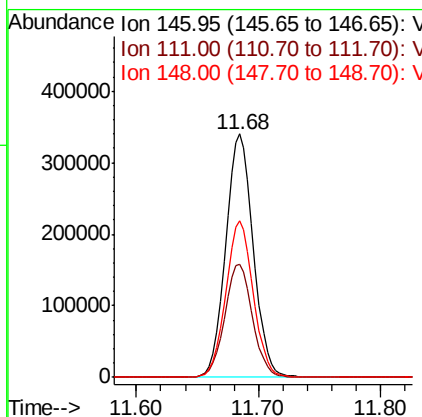
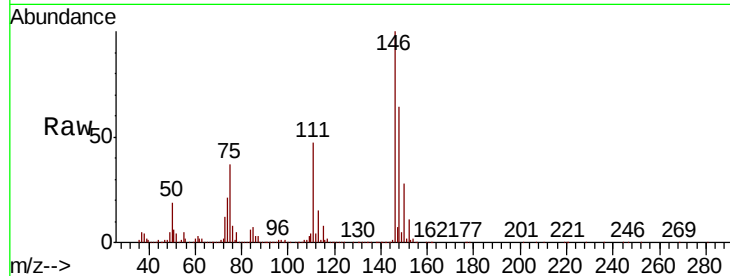




#65  
 1,2-Dichlorobenzene  
 Concen: 4.693 ug/L  
 RT: 11.68 min Scan# 3295  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

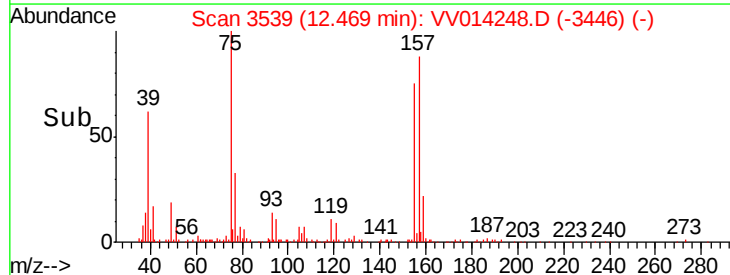
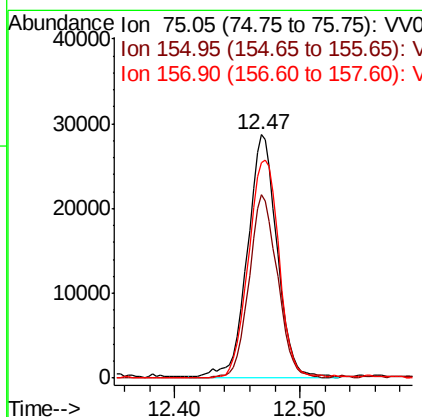
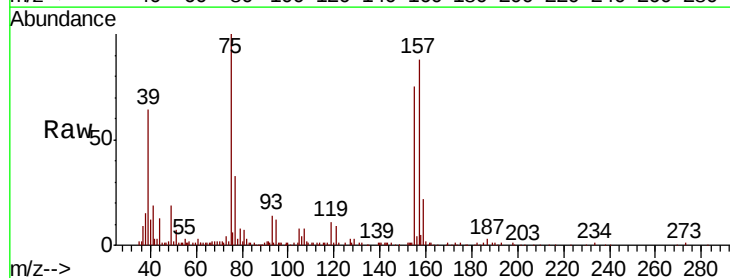
Instrument :  
 MSVOA\_V  
 ClientSampled :

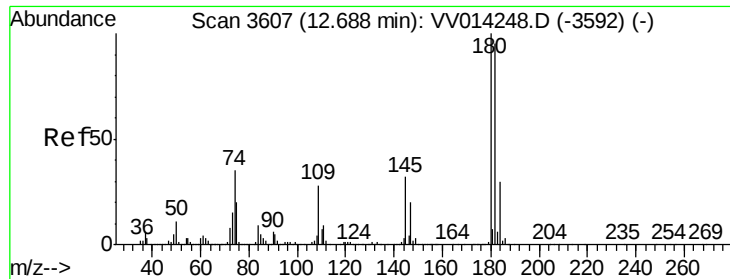
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.6  | 37.3  | 55.9  |
| 148     | 64.4  | 51.5  | 77.3  |



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.947 ug/L  
 RT: 12.47 min Scan# 3539  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 75.1  | 60.1  | 90.1  |
| 157     | 88.2  | 70.6  | 105.8 |

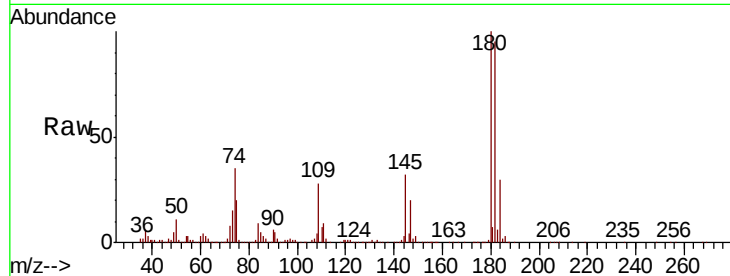




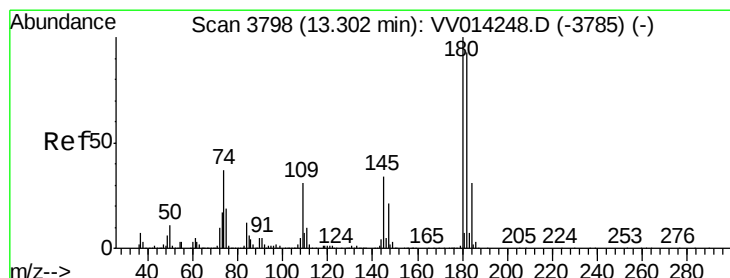
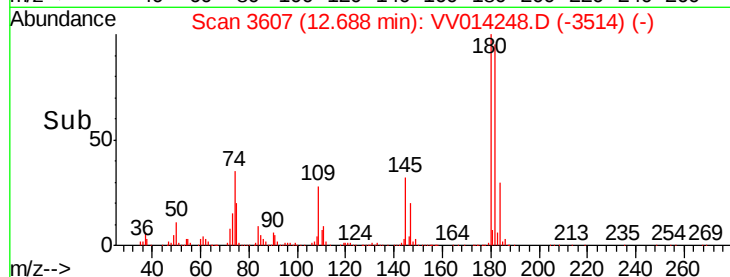
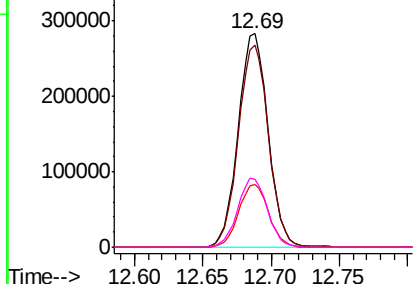
#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.738 ug/L  
 RT: 12.69 min Scan# 3607  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

Instrument :  
 MSVOA\_V  
 ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:180 | Resp: | 431236      |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 95.1  | 76.1 114.1  |
| 184         | 29.5  | 23.6 35.4   |
| 145         | 32.2  | 25.8 38.6   |

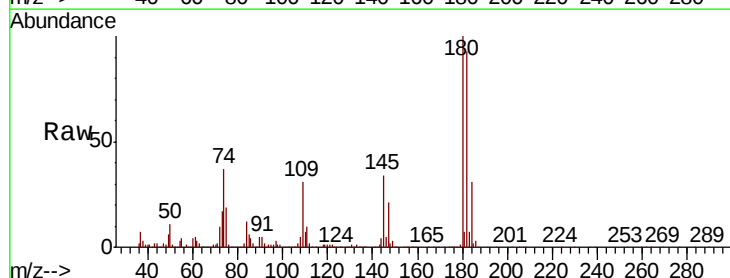


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

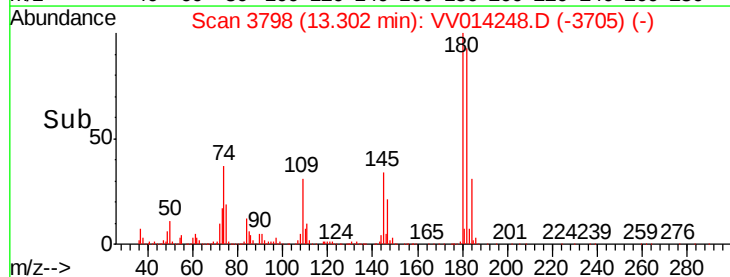
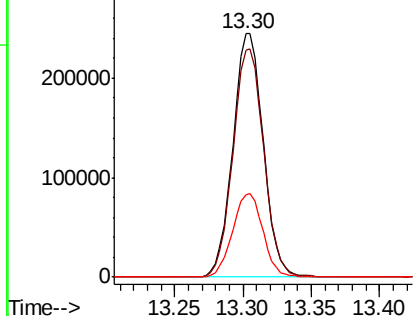


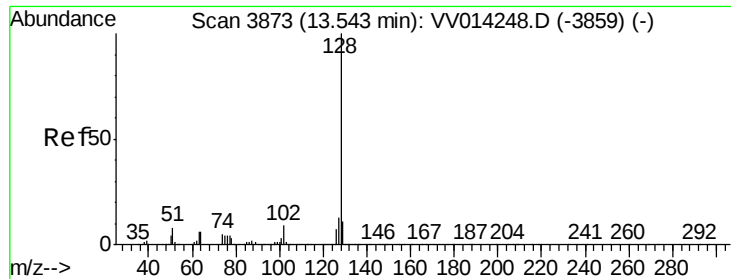
#68  
 1,2,4-trichlorobenzene  
 Concen: 4.739 ug/L  
 RT: 13.30 min Scan# 3798  
 Delta R.T. 0.00 min  
 Lab File: VV014248.D  
 Acq: 02 Jan 2020 14:41

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 378712      |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 95.0  | 76.0 114.0  |
| 145         | 34.2  | 27.4 41.0   |



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.186 ug/L

RT: 13.54 min Scan# 3873

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

Instrument :

MSVOA\_V

ClientSampleId :

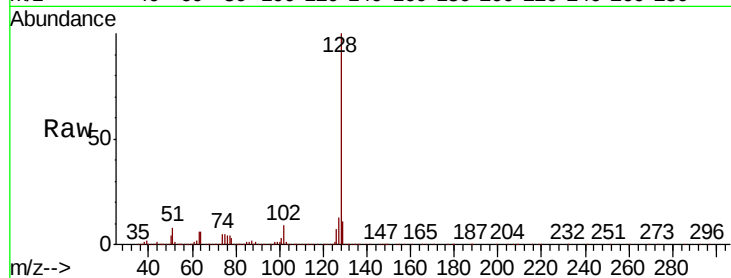
Tot Ion:128 Resp: 772112

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

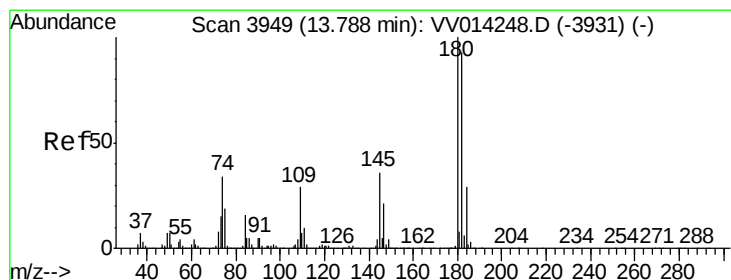
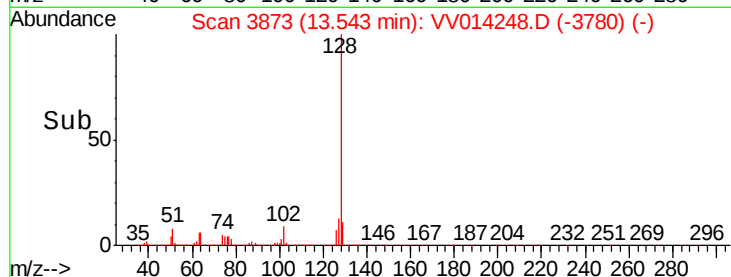
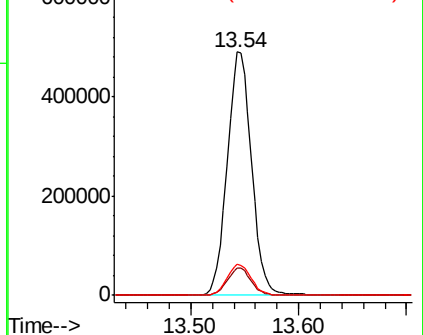
127 12.7 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.802 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014248.D

Acq: 02 Jan 2020 14:41

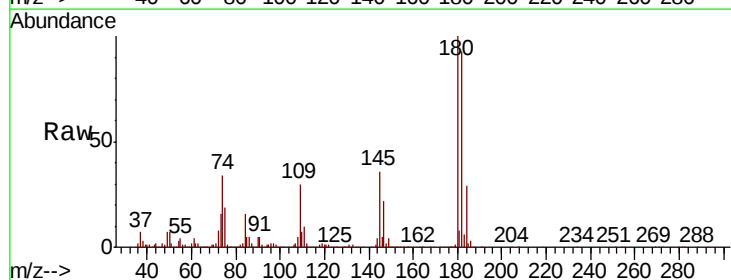
Tgt Ion:180 Resp: 335540

Ion Ratio Lower Upper

180 100

182 93.9 75.1 112.7

145 36.1 28.9 43.3



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

